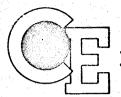
IBM-POUGHKEEPSIE December 31, 1964



Diagnostic Engineering Publication:

1410/7010

Subject:

Diagnostic Program TC50C

1410/7010 Diagnostic Tape Control Program

Sequence Number

005

Replaces

TC50B

Modification to TC50B to create TC50C:

Correct failure to loop on NOT READY pglin AB30, page 46. 1.

Correct error that disabled ability to update on 40K and up 2.

systems pglin AC70, page 50.

Correct problem caused when entering control card infor-3. mation from typewriter and no SYSTEM CARD information entered pglin ADO1, page 51.

Enclosures:

102 Pages

192 Card Deck for CARD ONLY SYSTEMS (as punched by UP51)

8 Cards - Card Loader (1-7) and 1 Core Clear

183 Cards No. 001-183 Data Cards

1 Card

Execute Card

Distribution:

X 1410

X 7010

Other

TC50

TC50C Page 001

TC50C

1410/7010 DIAGNOSTIC TAPE

CONTROL SYSTEM

12/31/64

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Appendix III Change Cards and Decks - Level Cards

A. Change Card Images

Whenever a program on your master tape is to be patched or deleted, or a new program is to be added to your master tape, a "Change" card image must be created in order to instruct TC50 Update as to what is desired.

Normally, it will not be necessary for these cards to be created in the field, since any program changes supplied by Diagnostic Development will include change card images regardless of whether the changes are supplied via card decks or via card image tape format.

However, the "Change" card images will contain:

Column 1	X -to indicate a change card		
Column 2	N -If to add a new program		
	D -If to delete an old program		
	F -If to patch a present program		
Columns 3-5	Will contain the subject program's		
	sequence number. This must agree		
	with the number within the program.		
Columns 6-75	May contain comments		
Columns 76-80	May contain the subject program's		
	identity.		

B. Sequencing of Change Cards and Decks.

An "XN" change card will be the first card of each new program deck. (A load program may or may not be between the XN card and program deck.)

An "XP" change card will be the first card of each set of card patches to any one program.

An "XD" change card will be used to designate the deletion of any program.

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All change cards, and their associated decks, must be placed in ascending numerical sequence according to the sequence numbers in columns 3-5 of the change cards. Due to space limitations, TC50 Update cannot check for correct sequencing.

If your changes are in card image format on tape, TC50 Update will handle them via a tape drive.

If you have an "on line" 1402, 1442 or 7223 card reader and the changes are in card deck form, they may be handled through your reader.

If you have no "on line" reader, and your changes are in card deck form, you must use "off line" card to tape equipment to place your card images on tape with odd parity. These changes may or may not be placed on the same tape, and directly following, any configuration control card images you may be adding to your master tape. The last card image placed on this tape <u>must</u> be followed by a tape mark.

C. Level Cards

Most "changes" or "Updates" distributed to the field from diagnostic engineering will cause a change to the "change level" of your master tape. The first card image of all such updates will be an "L" card. This card indicates to TC50 Update the level that this group of changes will place a diagnostic tape at, and it indicates the oldest level a tape may be at and still be logically updated by these changes. (See section 1.01.05.00 for further information.) Only "level" cards supplied by diagnostic engineering should ever be used.

The "L" card consists of:

Column 1 - L

Column 2 - Blank

Columns 3-6 Oldest acceptable tape level that can be updated by these changes.

Columns 7- Blank

Columns 8-11 New level of a tape after this update

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Appendix IV Insertion of Control Card Images via the

Console Printer

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Program Listing

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Summaries

Summary 1 Tape Search Operation

Summary 2 Straight Duplication of a TC50 Tape

Summary 3 Normal Update/Edit Operation

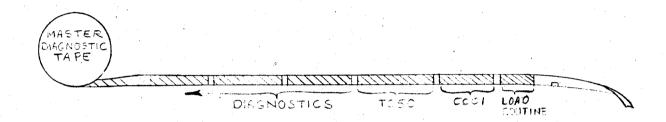
INTRODUCTION TO THE TC50 DIAGNOSTIC TAPE SYSTEM

The TC50 program is a combination of a tape search program and a tape update program. This writeup is divided into two corresponding sections plus this introduction to the TC50 system.

The prime objectives of the TC50 System are:

- 1. Assist in "bringing up" a new 1410/7010 system to the point where diagnostics can be run.
- 2. Provide an initial master tape that may be used to run some diagnostics without requiring the updating of the tape.
- 3. Provide rapid access to diagnostic programs.
- 4. Provide the versatility of "machine configuration control cards "without requiring that they be punched for every program on the tape.
- 5. Provide a simple and fast means of updating 1410/7010 diagnostic tapes.
- 6. Provide for multiple outputs when updating the diagnostic tape.
- 7. Automatically provide an "Edited" working tape that contains only those programs needed by a particular system, while updating the system's master tape that contains all 1410/7010 diagnostic programs.
- 8. Provide a means for card/tape systems to obtain card decks directly from their diagnostic tape.
 (Accomplished through program UP51)
- 9. Provide a "quick" reliability check of a 1410/7010 machine system.

The Master 1410/7010 diagnostic tape contains programs in "memory dump" form. These "memory dumps" are of program length (not memory length).



The above illustration is to show the contents of a TC50 diagnostic tape. The first record is a short load routine placed there (by TC50) when the tape is created. (This load routine is described in Appendix I of this writeup.) Besides having the function of loading the second record on the tape, the load routine contains some basic tape patterns to assist in diagnosing solid tape read failures.

The second record on the tape is the basic CPU diagnostic CC01. This diagnostic is (automatically) run every time the tape is loaded. All error indications provided by this program are "halts" or "system checks." CC01 also has more extensive tape patterns in it. Upon successful completion, CC01 reads in the third record (TC50), and turns control over to it.

The fourth record, and all succeeding records, are normal diagnostic or utility programs. The last record on the tape is a tape mark.

Updating a TC50 Diagnostic Tape is accomplished through the use of card images. ("Updating" includes creation of a tape, adding or changing the tape's machine configuration control cards, adding programs, deleting programs, and patching programs.) These card images may be provided through a 1402, 1442 or 7223 card reader, or through the use of tape drives.

1.01.00.S

TC50 SECTION S (Search Section)

1.01.00.S0

Description

The S, or search section, of TC50 is the program used to locate, load and initiate the running of all diagnostics and other programs contained on the 1410/7010 diagnostic tape.

The search section is designed to make the running of diagnostic programs as fast and easy as possible. The search section cannot be run from cards.

When TC50 is initially loaded, the search section is contained between addresses 01000 and 02000 of core memory. The program is started at address 01972 when initially loaded from tape. It then housekeeps and relocates itself to occupy memory locations 00334 through 00999. The S section is then ready to perform its functions.

At the request of the operator, the S section will initiate a single selected program, a group of selected programs, or all programs on the tape starting at a previously selected program.

TC50 Search also provides an operating option wherein portions of certain programs will be automatically run in a quick mode in order to provide a fast reliability check of a 1410/7010 system. These programs are designated by the diagnostic engineering department. They will automatically include, for all systems, a portion of a CPU reliability program, the addressing tests of applicable memory programs and a complete system test program. It should be noted that this option is a compromise between a thorough and a fast reliability check. The time required to run this complete option will vary according to the system machine configuration. However, for most systems, it should be less than seven minutes.

TC50 Search also provides limited information and closed subroutines for the use of diagnostics on the TC50 tape. It makes available an indicator to allow a diagnostic to know if it is being run from cards or tape. It provides the channel that TC50 Search was loaded from. It has closed subroutines to allow a diagnostic to space or backspace the TC50 source tape.

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In order to initiate the running of the TC50 U, or Update, section from the 1410/7010 diagnostic tape, TC50 must be selected for running via the TC50 S section options.

A flow chart of the search section is included in this writeup.

1.01.00.Sl Equipment Required

A 1410 or 7010 machine system with tapes on channel E, F, G or H.

1.01.00.S2 Card Deck (Entire TC50 Program deck)

7 Cards

Load Program

l Card

Core Clear Card

183 Cards

Program

(Cards numbered 001 -180)

1 Card

Execute Card (Branch to 2000)

1.01.00.S3 Machine E.C. Level

Not Applicable

1.01.00.S4 Pass Length

Variable

1.01.01.SO Loading Procedures

- 1. Make a TC50 diagnostic tape ready on tape drive 0 of any channel.
- 2. If a 7010 load button is being used, and the tape is on channel E:

Depress the tape load switch

Otherwise:

- (a) Display memory location 00000.
- (b) Alter to:

KL%B000011\$. For E channel tape XL?B000011\$. For G channel tape The B000011\$. For H channel tape

3. Set to RUN, COMPUTER RESET, START

The above procedures will load a very short load routine. This load routine will load CC01. Upon successful completion, CC01 will load and initiate the search section of TC50. Appendix I of this writeup contains a description and listing of the short load routine that is the first record of the TC50 diagnostic tape.

1.01.02.S0 Operating Procedures

Upon initial loading, and upon the completion of any selected option, TC50 Search will type: OPTION?

At this time use the inquiry button to enter one of the following:

- 1. *Program identity, i.e. "CU01". Designated program will be run in it's entirety.
- 2. *Left portion of a program identity.

 All programs having the designated portion of the identity, that are adjacent on the tape, will be run in their entirety. i.e., if "C" were entered, all programs with a "C" identity would be run; if "CU" were entered, all programs with a "CU" identity would be run; if "CU0" were entered, all programs with a "CU0" identity would be run; etc.
- or 3. Nothing (Just request / release)

 All programs on the tape will be run in sequence starting at the point the tape is located when this entry is made.
- Fntering a dollar sign will select the reliability mode described in section 1.01.00.80 of this writeup.
- * NOTE: Normally when a program identity or a portion of a program identity is entered, the diagnostic tape is rewound before the search of the tape is started. If a word mark is entered along with the first character of the identity, this rewind will be inhibited.

1.01.03.50 Operating Hints and Comments

The operation of the search section of TC50 requires very little knowledge of the program. Knowing the various options available should be sufficient.

You should be cautioned that upon the <u>completion</u> of any program on the tape, TC50 Search must necessarily read in the next record to determine if a "multi pass" program is being run. The tape will then be backspaced one record to resume its normal position. However, this destroys the just completed program in core memory. In order to re-run the program, it must be re-selected.

TC50 Page 010 Search

If an invalid entry is made in response to the "OPTION?" request the tape will be completely searched for this invalid entry and, failing to locate it, will re-type "OPTION?"

The search section of TC50 contains no halts and a loop condition will result if a machine malfunction is responsible for an I/O status error condition during the execution of tape forward space, backspace or rewind operations.

When a program identity is entered following the "OPTION?" request, the entered data is read into address 00963.

1.01.04.S0 Program Stops and Restarts

There are no programmed halts in TC50 Search. If a data check is encountered while attempting to read in a program, TC50 will backspace and read repeatedly until the record is read without error, or the program is manually halted.

Program Restart Locations

(2) *00334

Starting at this address will cause OPTION? to be typed. This restart address will simulate the reloading of TC50 Search providing locations 00334 - 00999 have not been disturbed since TC50 Search was last loaded.

(b) * 00400

This is the address all programs must go to when complete. Restarting here will simulate the end of a diagnostic test.

(c) ***** 02000

This is the starting address of all diagnostic programs.

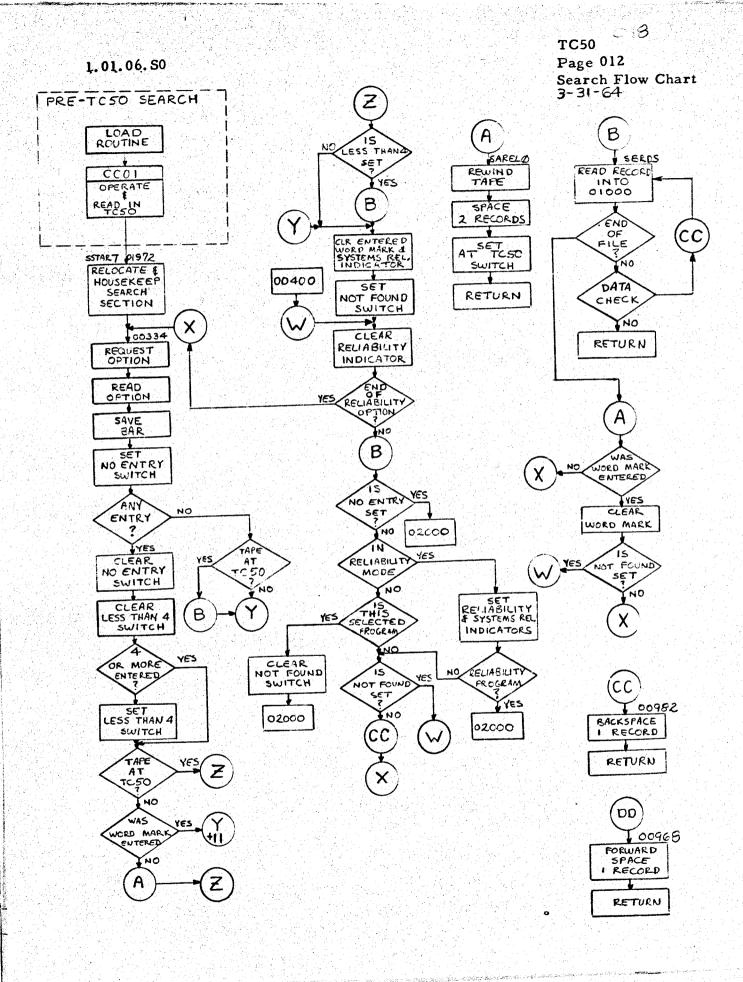
* Note:

These addresses will be different in the case of some memory diagnostics due to the fact that the memory diagnostics must relocate TC50 in order to check the lower portion of core memory.

1.01.05.S0 Typeouts

OPTION?

This is the only typeout provided by TC50 Search. It is a request that an option be selected as explained in section 1.01.02.So.



1.01.00.U

TC50 SECTION U (Update Section)

1.01.00.U0

Description (ALSO REFER TO FAGE 034)

The U, or Update, section of TC50 is the program responsible for creating and maintaining all TC50 diagnostic tape systems. The U section is capable of adding, replacing and patching programs on an already existing diagnostic tape. It can create a tape from card image programs. It will selectively place configuration control card images in programs requiring them. The Update section is capable of furnishing an updated master tape output containing all 1410/7010 diagnostics and an updated working tape containing only the programs required by a specific machine configuration. It is capable of performing most of these options during a single run of the program. All outputs of TC50 Update are in a "short memory dump" form. The dumps are created by moving the program to be written to the top of memory, and then performing a WTBEW instruction.

An operation of TC50 Update consists of up to four phases. "Pre-Phase" is the first one to operate. It does all the housekeeping of itself and the other three phases prior to the actual update operation. It occupies the majority of the 9000 memory locations that TC50 is allocated.

- Phase 1 (2nd phase) is responsible for combining input card images and input memory dumps. It also stores, into the TC50 program, any new configuration control cards read during pre-phase operation. The output of phase 1 is a tape containing memory length core dumps.
- Phase 2 (3rd phase) is responsible for selectively updating the configuration control card images of all programs on the tape (except TC50). Its input consists of short or long memory dumps. Its outputs are from 1 to 20 tapes containing program length (short) memory dumps.
- Phase 3 (4th phase) is responsible for producing an edited working tape. It selectively deletes programs not required by a particular machine configuration.

 Its input is normally a master diagnostic tape of "short" memory dumps. Its output is one tape containing the desired programs in "short" memory dump form.

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Phases 1, 2, and 3 occupy only locations 00001 through 00999 while they are operating.

Upon initial loading, pre-phase asks several questions of the operator. The answers are inserted by means of the inquiry request button. Pre-phase then determines, from the answers received, which phases are required for this operation and modifies the program accordingly. Pre-phase also reads any new configuration control cards available, and stores them in lower memory to make them available for phases 1 and 2.

When a straight duplication is being performed (no program changes, no control card changes, and no program editing), Pre-Phase combines phases 1 and 2 to create a single phase duplication program that can provide up to 20 output tapes from a single input tape.

When an "Edit" pass is called for with no program changes and no control card changes, Fre-Phase combines phases 2 and 3 to create a single phase edit program that will provide a single edited output tape from a master input tape.

The memory dump inputs and outputs to TC50 Update may be on any tape selections on any of four channels. TC50 Update is capable of utilizing up to 23 tape drives on a single program run. However, the maximum number of tape drives required for any type of operation is 3. A straight duplication or auto edit run requires only 2 tape drives.

The card image inputs to TC50 Update may be from a card reader (1402, 1442 or 7223) or from any tape drive on any of four channels.

1.01.00.Ul Equipment Required

1410 or 7010 with the following minimum number of I/O devices:

2 tape drives -

Straight duplication or straight edit runs.

3 tape drives -

Any operation requiring only the card image changes pre-written on tape by diagnostic development.

3 tape drives and "off line" card- to-tape equipment-

or

3 tape drives and an "on line" card reader (1402, 1442 or 7223). -

- Any operation.

1.01.00.U2 Card Deck (Entire TC50 Program Deck)

7 Cards Load Program
1 Card Core Clear Card

183 Cards Program

(Cards numbered 001 - 183

1 Card Execute Card (Branch to 2000)

1.01.00.U3 Machine E. C. Level

Not Applicable

1.01.00.U4 Pass Length

Variable, but should average less than 5 minutes in the field and should seldom exceed 10 minutes for any operation including creation of a tape.

1.01.01.U0 Loading Procedures

1.01.01.Ul Loading from a card deck:

- 1. Ready a TC50 card deck in a 1402 or 1442 card reader.
- 2. If using an E channel reader on a 7010 Depress the card load switch.

Otherwise -

Display and alter memory location 00000 to:

ŘĽ%1100011\$. For channel 1 reader ŘĽ¤1100011\$. For channel 2 reader

- 3. Set to RUN, RESET, START.
- 1.01.01.U2 Loading from a TC50 tape:

- 1. Load TC50 Search as explained in section 1.01.01.50.
- 2. When "OPTION?" is typed, enter "TC50".

- 1.01.02.U0 Operating Procedures (Creating, modifying or duplicating a TC50 Diagnostic Tape.) ALSO SEF PAGE 034 for illustration
- 1.01.02.U1 Preparation prior to machine time.
 - 1. If configuration control card information is to be added or modified, prepare the card images as explained in Appendix II of this writeup. (Once a system's Master TC50 Diagnostic Tape contains the proper control card images, they need never be added again unless the system machine configuration is changed or the TC50 Program is replaced.)
 - 2. If any programs are to be patched, added, or deleted, prepare the "change" card images and program deck card images as explained in Appendix III of this writeup.

1.01.02.U2 Machine set up.

- 1. Ready a TC50 card deck in a 1402 or 1442 reader or ready a TC50 Diagnostic Tape on any tape drive 0.
- 2. If configuration control cards are to be added or modified, place the new card images in the reader (1402, 1442 or 7223), or on any tape drive. (If limited to 3 tape drives, see NOTE on next page.)
- 3. If card image patches, additions, or deletions are required, place these card images in the reader (1402, 1442 or 7223) or on any tape drive. (If limited to 3 tape drives, see NOTE on next page.)
- 4. If a TC50 Diagnostic Tape is being duplicated, modified, or edited, make it ready on any tape drive. (If running from tape, this may or may not be the tape on drive 0 that has already been made ready.)
- 5. If this operation is other than a straight duplication and is not an "edit" run, make a scratch tape ready on any drive for use as a buffer tape.

- 6. Make all output tapes ready. (If limited to 3 tape drives, see NOTE below.)
 - (a) For any operation other than an "edit" run, this may be from 1 to 20 drives.
 - (b) For an "edit" run with no control card changes or program changes, 1 output drive is required.
 - (c) For an "edit" run with control card changes or program changes, 2 output drives are required.

NOTE: If limited to 3 tape drives: and "control card" and or "change card" image inputs are from tape:

Configuration control card images, change card images and one output drive may all utilize the same physical tape drive since none of these are referred to simultaneously by TC50 Update. (In the case of 6. (c) above, the second output tape drive selection entered is the tape drive that may be used for the 3 different purposes.)

7. If using a 7223 reader for control card and/or card image inputs, place a blank card on the back of the input decks.

1.01.02.U3 Operation

- 1. Load TC50
- 2. Some of the following questions will be typed by TC50, Use the inquiry request button to enter the correct answers.
 - (a) CORE SIZE? 0-10K, 1-20K, 3-40K, ETC.

 Enter the core memory size of the system being operated on as follows:

"0" -10K "5"-60K "1"-20K "7"-80K "3"-40K "9"-100K

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(b) CONTROL CARD SOURCE?

If no configuration control card changesrequest / release.

If control cards are in a card reader Enter "EC" or "FC" for a 1402 or 1442
on E or F channel respectively. ("EZ" or "FZ"
for a 7223 reader.)

If control cards are on a tape drive -Enter "E" or "F" or "G" or "H" to indicate channel, followed by a "tape drive selection digit". i.e.: "E1", "E2", "H3", etc.

If control cards are to be entered from the console printer Enter "ET" and see Appendix IV.

(c) DIAGNOSTIC TAPE SOURCE?

If <u>creating</u> a tape from card images - request / release.

If duplicating, modifying or editing an existing tape-Enter "E" or "F" or "G" or "H" to indicate channel, followed by a "tape drive selection digit". i.e.: "E0, "E1", "G4", etc. (Usually tape drive 0).

(d) CARD IMAGE SOURCE?

If no card image patches, additions or deletions are being made - request/release.

If card images are in a card reader Enter "FC" or "FC" for a 1402 or 1442
on F or F channel respectively. ("EZ" or FZ"
for a 7223 reader.)

If card images are on a tape drive -Enter "E" or "F" or "G" or "H" to indicate channel, followed by a "tape drive selection digit". i.e.: "E1", "E2", "F5", etc.

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(e) AUTO EDIT? Y/N

If an "edited" working tape is desired, enter "Y" for yes.

If a straight duplication is desired or no "edited" working tape is desired, enter "N" for no.

(f) BUFFER TAPE DRIVE?

Enter "channel letter" and "drive selection digit" of scratch tape to be used as a butter tape. i. e.: "El", "E2", "F4", etc.

(g) OUTFUT TAPE DRIVES?

Enter "channel letter" of the first output drive followed by the "drive selection digits" of all output drives on that channel, followed by the "channel letter" of the next channel having output drives, followed by the "drive selection digits" of all output drives on that channel, etc. (Minimum of 1 and maximum of 20 tape drives)

Example: "E569G2H43" entry designates E channel drives 5, 6, and 9, G channel drive 2 and H channel drives 3 and 4.

(h) 1 OUTPUT TAPES?

Enter a "channel letter" and a "drive selection digit". i.e.: "E2"

(i) 2 OUTPUT TAPES?

Enter a "channel letter" followed by 2 drive selection digits" or a "channel letter" and "drive selection digit" followed by another "channel letter" and "drive selection digit". i.e.: "E27" or "E2F7".

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- 3. After answering one of the output tape questions, the operation will proceed automatically until its completion unless an I/O status indicator is encountered.
- 4. Input/Output errors:
 - (a) If any I/O unit being used should become NOT READY, TC50 Update will loop until the unit is made ready.
 - (b) If a DATA CHECK should occur on any read or write operation on any I/O unit, a halt will occur. (This is the only programmed halt in TC50 Update other than the halt at the end of the program.)
 - (1) START will attempt a re-read or re-write of the bad data. (If a tape write, a skip operation will preceed the re-write.)
 - (2) COMPUTER RESET & START will cause TC50 to attempt to operate without correcting the bad data. CAUTION!
- 5. Halt with the IAR at 00773 or 00687, program is complete.

1.01.03.U0 Operating Hints and Comments

- 1. Data Checks and Memory Dump Tapes All tape records written by TC50 are in the form of memory
 dumps. Although depressing START following a "write tape
 data check" will cause a backspace/skip, due to the length
 of the records being written, in some cases it could require
 numerous backspace/skip operations to bypass a bad spot
 on a tape.
- Blank Cards and Input Card Images TC50 will ignore all blank card image inputs. Therefore
 blank I. B. M. cards may be used to separate card decks
 being read by TC50.
- 3. NEVER use a 10K or 20K system to create, duplicate or update a TC50 Diagnostic Tape that is to be used by a system with a larger memory than 10K or 20K respectively. Programs too large to fit in a 10K or 20K memory are automatically deleted during any type run since they cannot be properly written on tape.
- 4. If you have a 10K or 20K system, and its memory size is increased, be sure and obtain a new master tape containing all current programs, since your current master tape does not contain any programs larger than your old memory.
- 5. Load Cards may or may not be on card decks as they are being added to your tape during an update operation. They will be ignored by TC50 Update.

1.01.04.U0 Program Stops, Loops and Restarts

1.01.04.Ul Program Stops

IAR at 00408

A data check occurred on the last I/O operation. The data check indicators are still on.

(a) If tape operation
to attempt to correct error by repeating the read
or write operation, depress START. A backspace/
read or a backspace/skip/write operation will result.

-to attempt to continue without correcting the bad data, COMFUTER RESET and START. CAUTION.

(b) If card reader operation --if bad card, correct card, make reader ready and depress START.

-if card reader error, replace card in reader hopper, make reader ready, depress START.

-to attempt to continue without correcting the bad data, COMPUTER RESET and START. CAUTION.

IAR at 00773

Completion of an Update run

IAR at 00687

Completion of an Edit or Update / Edit run.

1.01.04.U2 Program Loops

If any tape drive or card reader being used by TC50 Update becomes not ready, TC50 Update will hang in a tight "not ready" loop until the associated I/O device is made ready.

1.01.04.U3 Program Restarts

- 1. If an operator error is made during a TC50 Update operation that causes any kind of loss of control, it is recommended that the TC50 program be reloaded.
- 2. If further TC50 Update operations are desired after completion of a TC50 Update operation, it is necessary to reload the TC50 program.
- 3. At the completion of an Edit or Edit/Update run, you may:
 - (a) File protect the new edited tape
 - (b) Make its drive ready and change its selection to 0.
 - (c) COMFUTER RESET, START

The new edited tape will be placed in operation.

1.01.05.U0 Typeouts

CARD IMAGE ERROR - FIXIT

- 1. An illegal, unexpected card image was read.
- or 2. You indicated the card image source I/O unit incorrectly.

INVALID CARD IMAGE

- Expected to read at least one configuration control card image, but first card image read was a "change" card,
- or 2. An illegal, unexpected card image was read,
- or 3. You indicated the configuration control card source I/O unit incorrectly.

As OUTPUT TAPES are being created, TC50 Update will type the sequence numbers and identities of the programs that are being written on the output tapes.

* LEVEL ERR

The changes now being made to your diagnostic tape were not meant to be made to a tape at the change level your present tape is at. Your present tape is either missing some previous changes, or your present tape is already at a level higher (newer) than are the changes you are incorporating.

OLD - XXXX

NEW - XXXX

These typeouts indicate the change level of your old (source) tape, and the new tape(s) you are new creating. The X's should be four digit numeric numbers. (The higher the number, the newer the level.)

Zone bits in the 1000's position of the "old" level indicate that at some prior time, an update was skipped.

Zone bits in the 100's position of the "old" level indicate that at some prior time an update was made to your tape that took it backwards.

Zone bits in the corresponding positions of the "new" level, but missing from the "old" level, indicate you are now making said error. It would be advisable to stop the present operation, and obtain the proper tapes.

All other typeouts are explained in the "Operating Procedures" section 1.01.02.U0.

1.01.06.U0 Restrictions On System Programs

The restrictions below apply to all programs that are to be placed on a TC50 Diagnostic Tape.

1.01.06.Ul Memory Residence Area

All programs, upon initial loading, will occupy no memory locations outside of addresses 01000 through 39999.

1.01.06.U2 Program Starting Address.

All programs will have address 02000 as their initial operating address.

1.01.06.U3 Restricted Memory Areas

No program will, during its operation, alter addresses 00334 through 00999.

1.01.06.U4 Initial Memory Contents

No program can, when initiated, assume any area outside of its residence area to be cleared, or expect it to contain any pre-determined information except as stated in section 1.01.07.00 of this writeup.

1.01.06.U5 Program Exit Address

All programs, upon completion, will return to address 00400.

1.01.06.U6 Execute Cards

All execute cards included in a program deck (except the final "branch control" card), will assume they are loaded into address 00601 for operation, and, to continue loading, will return to address 00400.

1.01.06.U7 Final Execute Card (Branch Control Card)

The Final Execute Card will normally consist of a branch to 02000. In addition, it will have an "*" punched in the proper column so that upon being read into address 00601 in LOAD mode, the asterisk will occupy address 00672 of core memory.

1.01.06.U8 Core Clear Execute Card

The Core Clear card preceeding card 001 of each deck must conform to the specifications laid out in the 1410/7010 INTRODUCTION.

1.01.06.U9 Required Internal Data

All programs are required to contain, in the designated addresses, the data described in the following paragraphs.

01250-01255

In this area shall be the program's identity followed by a group mark/word mark. i.e., "CU01A\delta".

01250 & 01254 may or may not contain word marks.

01251 - 01253 must not contain any word marks

01245-01249

Word Marks

Location 01245 may or may not contain a word mark. However, it may be changed by TC50 Update as the program is placed on the tape.

Locations 01246 - 01249 must not contain any word marks.

Zones

01246 Zone

- If A Bit-Systems Test

01247 Zone

- If B bit Program belongs to the reliability group.
- If A bit Program is TC50.

01248 Zone

- If B bit Program requires System, Channel 1 and Channel 2 configuration control cards and no channel 3 or channel 4 control cards.
- If A bit Program requires System, Channel 1, Channel 2, Channel 3 and Channel 4 configuration control cards.

01249 Zone

- If B bit this program is required by all 1410/7010 tape systems. (Program cannot be "auto edited" from tape.)
- If A bit Program requires System configuration control card and no channel configuration control cards.

Numerics

01245-01247 Numerics

These three locations will contain the program's relative sequence number as assigned by Diagnostic Development.

01248-01249 Numerics

These two locations will contain the "last thousand's" digits of the program. i.e., If the programs last address was 27431, "27" would be placed in 01248-01249. This would cause 01000-27999 to be included in the core dumps of the program.

01215-01244

This area is reserved for the programmer to tell TC50 Update, Phase 3, what systems his program is applicable to.

All programs not having a B bit in location 01249, must have some coded information in this area.

How much of the area is required depends on what type systems the program is applicable to. The coding of this area starts at the right (address 01244) and continues to the left in 3 address blocks. The last address of the last block to the left will contain a word mark. Any addresses to the left of that word mark may be used in any manner by the program.

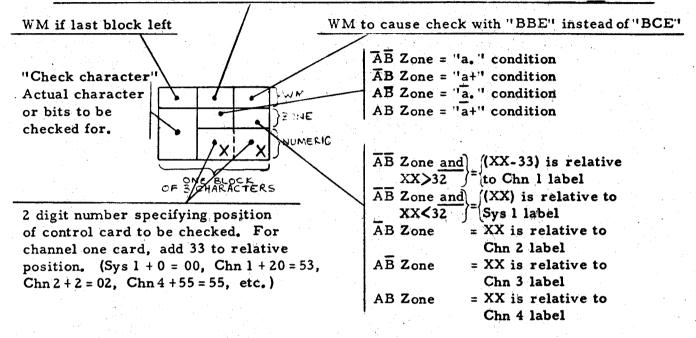
The explanation of the methods of coding this area starts on the next page.

MEMORY SPACE MUST BE ALLOCATED IN YOUR PROGRAM FOR ANY CONFIGURATION CONTROL CARDS REFERRED TO BY THE CONSTANTS IN THIS AREA. Refer to the 1410/7010 Introduction for Control Card space allocation.

Also, the zone bits in addresses 01248 - 01249 must indicate your program requires these Control Cards.

The figure below is a representation of the coding of an individual block of information.

WM to place ")" between this block's check character and sign and "(" between this block's sign and the next block right.



The methods of using this figure to code a programs "Edit Constants" are explained on the following pages by means of proceeding through an actual example.

TC50 Page 028 Update

We will assume a theoretical program. The assumed theoretical program requires a machine configuration, as follows, in order to properly operate.

The machine must have a memory size of 10K. It must be a 1410 (not a 7010) with a card reader of any kind on channel one,

or

it may be a 7010 with a card reader on Channel 2.

To put this another way:

(10K memory and not 7010 and reader channel 1) or (7010 and reader channel 2)

This may be coded as a Boolean expression:

$$(a.\overline{b}.c) + (d.e)$$

Where:

a = 10K memory

T = not 7010

c = reader on channel 1

d = 7010

e = reader on channel 2

. = "and" sign

+ = "or sign

In coding this information, these characters, signs and parentheses will be represented in 3 address blocks:

e. by addresses 01242 - 01244

d. by addresses 01239 - 01241

c)+(by addresses 01236 - 01238

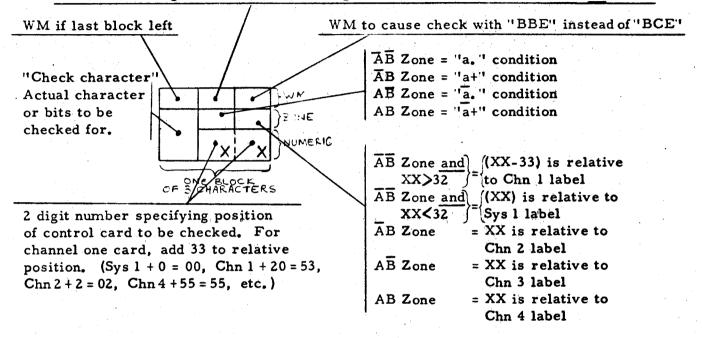
b. by addresses 01233- 01235

a. by addresses 01230 - 01232

The parentheses on both ends are assumed.

The figure below is a representation of the coding of an individual block of information.

WM to place ")" between this block's check character and sign and "(" between this block's sign and the next block right.



The methods of using this figure to code a programs "Edit Constants" are explained on the following pages by means of proceeding through an actual example.

TC50 Page 028 Update

We will assume a theoretical program. The assumed theoretical program requires a machine configuration, as follows, in order to properly operate.

The machine must have a memory size of 10K. It must be a 1410 (not a 7010) with a card reader of any kind on channel one,

or

it may be a 7010 with a card reader on Channel 2.

To put this another way:

(10K memory and not 7010 and reader channel 1) or (7010 and reader channel 2)

This may be coded as a Boolean expression:

$$(a.\overline{b}.c) + (d.e)$$

Where:

a = 10K memory

b = not 7010

c = reader on channel 1

d = 7010

e = reader on channel 2

. = "and" sign

+ = "or sign

In coding this information, these characters, signs and parentheses will be represented in 3 address blocks:

e. by addresses 01242 - 01244

d. by addresses 01239 - 01241

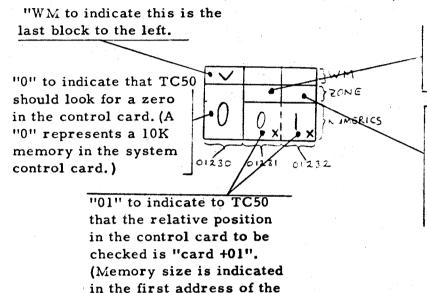
c)+(by addresses 01236 - 01238

b. by addresses 01233- 01235

a. by addresses 01230 - 01232

The parentheses on both ends are assumed.

Starting at the left most block (address 01230), and referring to the figure on page 027, the five blocks will be coded as follows:

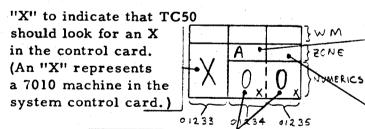


system control card plus one.)

No zone bits to indicate that the Boolean character and sign that this block represents is "a.".

No zone bits to indicate that the control card this block is referring to is either the system control card or the channel one control card. (Memory size is in the system control card.)

FIRST BLOCK FROM LEFT CODED TO INDICATE A 10K MEMORY IS REQUIRED. "a." in the Boolean expression.



"A Bit zone to indicate that the Boolean character and sign that this block represents is "a.".

"00" to indicate to TC50 that the relative postion in the control card to be checked is "card + 00". (Machine type is indicated in the first address of the system control card.) No zone bits to indicate that the control card this block is referring to is either the system control card or the channel one control card. (Machine type is the system control card.)

SECOND BLOCK FROM LEFT CODED TO INDICATE THE MACHINE REQUIRED IS NOT A 7010. "b." in the Boolean expression.

"WM" to cause the Boolean expression to be broken into two terms, at this point, by parentheses.

to indicate character TC50 should look for in the control card. (A reader is indicated by several different characters in the channel one control card. Therefore, the presence of any bit in the reader position would indicate a reader of some kind is present.)

Dy n B ZONE

TENDENCE IN THE RICS IN THE R

"45" to indicate the relative position in the channel one control card to be checked is channel one card plus 12. (A reader is indicated by a character in the first address plus 12 of the channel one card. "33" must be added to the "12" since this block refers to the channel one control card.)

"WM" to cause TC50 to check the control card character with a "Branch Bit Equal" instruction instead of a "Branch Character Equal" instruction.

(Any bit in the reader position indicates a reader is present.)

"B Bit" zone to indicate that the Boolean character and sign that this block represents is "a+".

to is either the system control card or the channel one control card.

(Channel one reader is indicated in the channel one control card.)

THIRD BLOCK FROM LEFT CODED TO INDICATE A READER IS REQUIRED ON CHANNEL ONE AND TO INDICATE THAT THIS IS THE END OF THE FIRST TERM OF A TWO TERM BOOLEAN EXPRESSION. "c) + (" in the Boolean expression.

"X" to indicate that TC50 should look for an X in the control card. (An "X" represents a 7010 machine in the system control card.)

NUMERICS

"'00" to indicate to TC50 that the relative position in the control card to be checked is, "card +00". (Machine type is indicated in the first address of the system control card.)

No zone bits to indicate that the Boolean character and sign that this block represents is "a.".

No zone bits to indicate that the control card this block is referring to is either the system control card or the channel one control card. (Machine type is in the system control card.)

FOURTH BLOCK FROM LEFT CODED TO INDICATE A 7010 IS REQUIRED. "d." in the Boolean expression.

to indicate character TC50 should look for in the control card. (A reader is indicated by several different characters in the channel two control card. Therefore the presence of any bit in the reader position would indicate a reader of some kind is present.)

No zone bits to indicate that the Boolean character and sign that this block represents is "a.".

"B Bit" zone to indicate that this block is referring to the channel two control card. (Channel two reader is indicated on the channel two control card.)

"12" to indicate the relative position in the control card to be checked is "card + 12".

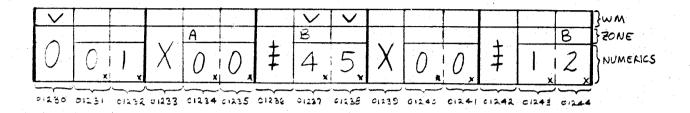
(A channel two reader is indicated by a character in the first address plus 12 of the channel two control card.)

FIFTH BLOCK FROM LEFT(LAST BLOCK) CODED TO INDICATE A READER IS REQUIRED ON CHANNEL TWO. "e." in the Boolean expression.

ZONE

NUMERICS

The total coding of the five blocks - -



- - can be converted to actual character coding:

This data would, as stated earlier, occupy addresses 01230 - 01244.

A program's coding must have a minimum of one block of information (unless 01249 contains a B bit) and a maximum of ten blocks of information.

A program's coding can not have more than two terms. i.e., $(a \cdot b \cdot c) + (d \cdot e)$ is two terms. $(a + b + c + d + e) \cdot (f + g + p)$ two terms. (a + b + c) is one term.

Although the sign of the last block to the right is meaningless in the Boolean expression, it must be present as a result of the method of coding. For uniformity, it is normally made the same as the sign of the next to the last block to the right.

1.01.07.U0 Inter-Program Communication

1.01.07.Ul Information available to system programs.

Addresses 00998 - 00999

- 00999 will contain a word mark if a program was loaded from a TC50 tape. 00999 will not contain a word mark if a program was loaded from cards.
- If a word mark is in 00999, the characters in 00998-00999 will be:

% R	if source tape is on channel 1
ПX	if source tape is on channel 2
? 3	if source tape is on channel 3
! 1	if source tape is on channel 4

Address 00997

- Will contain a word mark when the "Reliability Option" has been selected for running. Otherwise it will not contain a word mark.
- 1.01.07.U2 Closed subroutines available to diagnostics. (Only when 00999 contains a word mark)

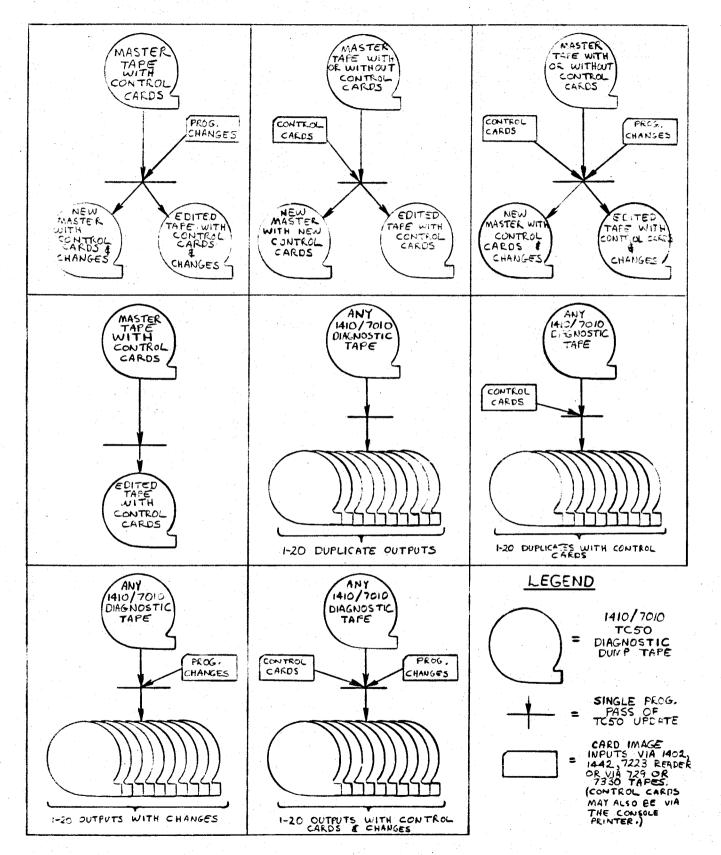
Branch to 00968

Forward space diagnostic source tape one record.

Branch to 00982

Backspace diagnostic source tape one record.

B VARIATIONS OF A TC50 UPDATE PROGRAM PASS



Appendix I TC50 Load Routine

Whenever a TC50 Diagnostic Tape is created, duplicated or updated, the first record of the new TC50 Diagnostic Tape is a short load routine. This load routine is automatically created by TC50 Update. The listing below is the actual load routine record that is on all TC50 Diagnostic Tapes. Note that the last portion of the record consists of three type tape patterns to assist in basic tape system debugging. (The first portion of the CC01 record has more extensive tape patterns.)

Address If Address Instruction Load Button Otherwise

00001	00011	₩0012300001₺	Go if Load Button
00013	00023	Ď0000000071 √	Set Up Tape Read
00025	00035	D0000000887	the second of th
00037	00047	Ď000000095 T	
00049	00059	Ď00002000793	
00061	00071	Ř00078≢	
00068	00078	Ľ%B001000\$	Read CC01
00078	00088	Ř000783	
00085	00095	Ř00102≢	
00092	00102	Ď0008800332X	Save Channel Info
00104	00114	Ď0008700331X	
00116	00126	J 02000b	Go to CC01
00123	00133	Ř00130≢	
00130	00140	Ľ% B001000\$	Read CC01

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00140	00150	Ř001303		
00147	00157	X00154‡		
00154	00164	D0014000332X	Save Channel Info	
00166	00176	Ď0013900331 X		
00178	38100	ў02000ь	Go to CC01	
00185	00195	Y		
00186	00196	1212424848686	-b-b-b1b	Floating Bits
00207	00217	<m\$gf\$m<<< td=""><td>m \$ F G \$ m < < m \$ G F</td><td>Floating Not Bits</td></m\$gf\$m<<<>	m \$ F G \$ m < < m \$ G F	Floating Not Bits
00228	00238	1248b-b	Word Marks	
00235	00245	mm	Word Seperators	

Appendix II

Preparation Of Configuration Control Card Images

All tape installations must initially prepare one set of configuration control card images. (Card Only systems refer to 1410/7010 Introduction). You will never have to do this again unless:

- (1) Your system machine configuration changes.
- or (2) You damage your master tape and must replace it.
- or (3) You replace your TC50 program on your master tape.

One complete set of configuration control card images consists of one "system control card image"; and one "channel control card image "for each channel your machine has. i. e.; If you have a one channel system, you need a system control card and a channel one control card. If you have a three channel system, you need a system control card and a channel one control card, and a channel two control card, and a channel three control card. etc.

Most diagnostic programs refer to the information punched in these control cards to determine what equipment is available for use or for checking. The card images you prepare will be placed on your Master TC50 Diagnostic tape in TC50, and in all diagnostics requiring them, by TC50 Update.

This information is also used by TC50 Update during an "Edit" operation.

Determine which configuration control cards your master tape requires, and punch the cards as follows:

Columns 1 - 4

SYSI	for System Control Card
CHNI	for Channel 1 Control Card
CHN2	for Channel 2 Control Card
CHN3	for Channel 3 Control Card
CHN4	for Channel 4 Control Card

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Columns 5 - 12

- will be blank for all control cards.

Columns 13 - 69

Funch your machine configuration information as directed in Appendix I of the 1410/7010 Introduction.

Columns 70 - 80

- may be blank or may contain comments as desired.

If you have a card reader (1402, 1442 or 7223), your Configuration Control Cards are ready to be placed on your Master tape.

If you have no card reader on your system, use card to tape equipment to place your control cards on tape with odd parity. Following the control cards on the tape must be either a tape mark, or a "change" card. (Change cards are required only if you are adding, deleting, or patching programs on your master tape. Any required change cards may or may not be on the same tape as the Configuration Control Cards. Change cards are explained in Appendix III of this writeup.)

If you prefer to enter your configuration control card information via the console printer, refer to Appendix IV of this writeup. Whenever possible, control card information should be entered via card images to reduce the possibility of operator error and to save system time.

Appendix III Change Cards and Decks - Level Cards

A. Change Card Images

Whenever a program on your master tape is to be patched or deleted, or a new program is to be added to your master tape, a "Change" card image must be created in order to instruct TC50 Update as to what is desired.

Normally, it will not be necessary for these cards to be created in the field, since any program changes supplied by Diagnostic Development will include change card images regardless of whether the changes are supplied via card decks or via card image tape format.

However, the "Change" card images will contain:

Column 1	X -to indicate a change card
Column 2	N -If to add a new program
	D -If to delete an old program
	P -If to patch a present program
Columns 3-5	Will contain the subject program's
	sequence number. This must agree
	with the number within the program.
Columns 6-75	May contain comments
Columns 76-80	May contain the subject program's
	identity.

B. Sequencing of Change Cards and Decks.

An "XN" change card will be the first card of each new program deck. (A load program may or may not be between the XN card and program deck.)

An "XP" change card will be the first card of each set of card patches to any one program.

An "XD" change card will be used to designate the deletion of any program.

TC50
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Appendix III
3-31-64

All change cards, and their associated decks, must be placed in ascending numerical sequence according to the sequence numbers in columns 3-5 of the change cards. Due to space limitations, TC50 Update cannot check for correct sequencing.

If your changes are in card image format on tape, TC50 Update will handle them via a tape drive.

If you have an "on line" 1402, 1442 or 7223 card reader and the changes are in card deck form, they may be handled through your reader.

If you have no "on line" reader, and your changes are in card deck form, you must use "off line" card to tape equipment to place your card images on tape with odd parity. These changes may or may not be placed on the same tape, and directly following, any configuration control card images you may be adding to your master tape. The last card image placed on this tape must be followed by a tape mark.

C. Level Cards

Most "changes" or "Updates" distributed to the field from diagnostic engineering will cause a change to the "change level" of your master tape. The first card image of all such updates will be an "L" card. This card indicates to TC50 Update the level that this group of changes will place a diagnostic tape at, and it indicates the oldest level a tape may be at and still be logically updated by these changes. (See section 1.01.05.00 for further information.) Only "level" cards supplied by diagnostic engineering should ever be used.

The "L" card consists of:

Column 1 - L

Column 2 - Blank

Columns 3-6 Oldest acceptable tape level that can be updated by these changes.

Columns 4- Blank

Columns 5-8 New level of a tape after this update

Appendix IV

Insertion of Control Cards Via the Console Printer.

If it is desired, you may change, or add, configuration control card information via the console printer instead of via card images.

Prior to your scheduled machine time, write on a sheet of paper all information you require in your control cards columns 13-69, as explained in Appendix I of the 1410/7010 Introduction.

After you enter "ET" during the operation of TC50 Update, TC50 will type:

ENTER SYSTEM CARD

At this time, use the inquiry request button to enter your pre-determined system control card information for columns 13-45. (If you do not desire to change the present system control card information that is contained on your master tape, just Request/Release.)

When you depress inquiry release, TC50 will type:

ENTER CHAN I CARD

Use the inquiry request button to enter your pre-determined channel 1 control card information for columns 13-69. (If you do not desire to change the present channel 1 control card information that is contained on your master tape, just Request/Release.)

Similar requests may be typed for channel 2, 3 and 4 control card information. They should be treated just as explained for channel 1 above.

Should the program request information for a channel that you do not have on your system, just Request/Release.

3.5	
026	RUCTION
PAGE	INST
	ADDRS
	5

ဟ ဟ မ			1410/2010 FIAGNOST	TIAGNOSTIC AVAIRW TABE CONTOCUE		0
2 30	LABEL	00000			POUCE TO	
						INSTRUCTION
A A 1	SCHLCD	ECU	1000	SEARCH LOADING ACORESS		
2 00	STCIAG	ECU	2000	DIAGNOSTICS RUNNING ADDRESS		
6 66	SBCIAG	EGU	1000	DIAGNOSTICS LCACING ADDRESS		
2 A A	SICENI	EGU	1250	LEFT ADDRESS OF DIAG IDENT		
A B 5	RELIA	0.53	1247	RELIABILITY ZONE POSITION		
9 00	FIELC	ECU	1000	LCCATION TO REAC PREGRAMS INTO		
7 40	FIELES	. ECU	25500	FIELD ACCRESS -3		
8 00	CAREA	ECU	BPLASE	LCCATION TO REAC PHASE 2 INTO		
6 VV	PRCGSG	ECU	1247	LOCATION OF PROGRAM SEQUENCE NO.		
DIEA	TOPTEO	ECU	1249	LCCATION OF TOP THOUSANDS CHARS.		
end	SYSI	EGU	1256	SYSI CARD ACCR IN DIAGNESTIC		
2100	CHNI	ECU	1269	CHNI CARD ACOR IN DIAGNOSTIC		
0 0 0 0	CFN2	ECU	1346	CHN2 CARD ACCR IN DIAGNESTIC		
7100	CHN3	ECU	1403	CHN3 CARD ADDR IN DIAGNOSTIC		
0012	CHN4	ECU	146C	CHN4 CARD ADDR IN DIAGNESTIC		
0016	PCPU	ECU	2000			
100	INCEXX	EGU	2, x	3RD INDEX REG FCR PHASE 2 ONLY		
9100	INDEXA	ECU	3 × ×	IX REG FOR ANYTHING-NOT PH 1		
0010	INCEXE	D 33	X • 7	IC ERR RIN AND GENERAL USE		
A A 2 C	立 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	*****	- 李文明以及古中中市市市市市市市市市市市市市	李章帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝帝		
A A 2 1	*SEARCH SECTION OF	SECTION C	F TAPE CONTROL-THIS	SECTION IS RESPONSIBLE FOR		
0.022	*FINCING ANC LOACIN	ANC LOAC	ING INTO MEMORY THE	SELECTED PROGRAMS ON THE		
A D 2 3	*CIAGNESTIC TAPE	IIC TAPE				
2000		ORG	334		00334	
A D 2 S		CLURG	SCFLUD		01000 00334	
A A 2 6	在故事本本本本本	***	化 医 	非常常常常用的的现在分词 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基		
0023	*RCUTINE TO SELECT	TC SELEC	T A PROGRAM FROM DIAGNOSTIC TAPE	AGNOSTIC TAPE.		
A A 2 8	*STARTING	PCINT	FOR SEARCH SECTION.			
6200	SSTART	NC P	SUPTN	REQUEST OPTION	01000 10 00334	M&T000943W
DEVV		E41	*-16		01010 7 00344	K0C334M
	SCRPA	RC PW	SELTST	READ OPTION	01017 10 00351	L % T 000963R
26/0		Ser	Spsy	SAVE LAST ACCRESS &1	01027 7 00361	ที่668009
2003		BEXI	#-23°M	GC ON ANY BUT WER	01034 7 00368	R00351M
35.00		BA1	13 *	RESET INTERLCCK	01041 7 00375	R00382M

								510	
ວະວ			SEARCH SE	SECTION				PAGE 43	
PGL IN	LABEL	03340	OPERAND			5	ADDRS	INSTRUCTION	
A A 36	多少菜类 经订本的单数 多种类型 医垂体管 医脊柱电影学	***************************************		电离电路电电路电池 医克里特氏征 医二甲基氏征 医二甲基氏征原生性原生性原生性原生性原生性原生性原生性原生性原生性原生性原生性原生性原生性原					
AA37	SHAS ANYT	ANYTHING ENT	ENTEREC.						
A A 38		S.	SNCENTEL	SET NO ENTRY SAITCH	01048	9	00382	86500°	
4439		αs	SARNDB		01054	~	00388	100,000	
0440		CRG	200				96600		
4441		CCCRG	1061		01061		96600		
A A 42	ASdS	M O O	(8	BAR AFTER RCP	01065	S.	66800		
A 4 3		œ	3350	ENTRY FROM DIAGACSTIC	01066	2	00400	100571	
P A 4 4	SARNDE	BCE	SAITC, SPSY, 4	GO IF NO ENIRY MADE	01073	2	10400	800546003994	
AA45		Z.	SNCENT81	CLEAR NG ENTRY SWITCH	01085	9	61400	865000	
AA46	甲苯环苯 电影电影 医多种	****	- 教育学会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会	多数中华华安全的 医多种性 医二甲基苯酚 医克里特氏 医克里特氏病 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性					
6 4 4 7	*CALCULAT	IE NUMBER	*CALCULATE NUMBER OF CHARACTERS ENTE	ENTERED AND MODIFY ACCORDINGLY.					
AA48		Ş	SFCURE1	CLEAR LESS THAN 4 ShITCH	01091	\$	00425	E00532	
A A 4.9	SALLTS	FLCA	SCHPAD, SCOMPE1C	INITIALIZE COMPARE CP	01097	12	00431	000942006331	
A A 50		42	SRESPL, SRESUL	INITIALIZE SRESLL	01100	i .	00443	60093200927	
AA51		S	SPSY, SRESUL	CALCULATE RESULT	01120	11	00454	20039900927	
AA52		78	SCKIPC	GO IF 4 OR MORE	01131	~	99000	J00500L	
AA53		S	SRESUL, SCOMPE1C	REDUCE	01138	7	21400	50092700633	
454		S	SRESUL, SCOMPES		01149	11	00483	80092700628	
A A 5 5		Z.	SFCUR 6.1	SET LESS THAN 4 SWITCH	0110	9	00494	, 00532	
AA56	· · · · · · · · · · · · · · · · · · ·	********	电常形存存性 电电电电子电阻电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子	· · · · · · · · · · · · · · · · · · ·					
AAS7	*IS TAPE	AT TAPE	CONTROL RECORD.						
AA58	SCKTPC	38 60	SFCUR, SATTCE1	GO IF YES	01166	12	00500	V00531005471	
4459	***************************************	- 李华华华华森	中中华 医多种	中国 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基					
AA60	*LCCATE TAPE AT		ICSO IF NOT INHIBITED.	ED.					
AA61		<u>.s</u> 60	SVSEIRE 11, SELIST	GO IF WM ENTERED-RWC INHIBITED	01178	12	00512	V00565009631	
A A 62	e P	. 60	SARELO	GO LCCATE TAPE & RETURN	01190	~	00524	100749	
AA63	· · · · · · · · · · · · · · · · · · ·	专业会会会会会	· · · · · · · · · · · · · · · · · · ·	中华 多					
AA64	#IF LESS	THAN FC	*IF LESS THAN FOUR CHARACTERS ENTER	ENTERED-LOCATE ONE RECCRD PAST TC.					
AA65	SFCUR	N C D			01197	~ 4	00531	Z	
AA66		~	SBHDS	GO REAC RECORD IF LESS THAN FOUROIL98	JUR01198	7	00532	360000	
A A 6 7	SARNUZ	හා	SVSETR		01205	_	00539	J00554	

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AA70	*AT TAPE CCNIRCL		SWITCH.				
AA71	SATTC	NCPER			01212	1 00546	Z
AA72		3 0	SBRDS	GO READ A RECURD IF AT IC	01213	7 00547	300795
AA73	6 年中年中央中央市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场	中华 中	中华中华市中华中华中华市市 医西班牙奇奇 医克里奇奇奇	中华 化丁基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲			
AA74	*LCCK FOR		SELECTED PROGRAM				
AA75	SVSETR	3	SELTST, SYSREL	CLR WM ENTERED/CLR SYS REL IND	01220 1	11 00554	п0096300578
A A 76		N.	SNCFDE1	SET NOT FOUND SMITCH	01231	9 00 2 9	069004
AA77	NMSS	<u>s</u>	SRELIA	CLEAR RELIABILITY INDICATOR	01237	6 00571	16600B
8744		CCORG	1245		01245	11500	
PA 7 9		30 00	90CV&	SEQUENCE IS 005	01247	3 00579	
AA80		22	9 0 8	C9 WITH B BIT	01249	2 00581	
AABI	ICENT	CCCRG			01250	00582	
A A 8 2	U	M D D	arcscca, G	IDENTITY	01254	5 00586	
AA83	SAMORG	CRG	SSEES			00517	
A A 8 4	SCOORG	CCORG			01256	00577	
A A 8 5		NCPMM		GO FOR NEW REQUEST IF COMPLETED	01256	1 00577	z
A A 86	SYSREL	866	SSIART, SRESPL, B	GO IF RAN SYS IST IN REL MODE	01257 1	12 00578	W0033400932B
AA87	SSKPIC	සා	SBRDS	GO READ A RECORD	69210	06500 1	361000
A A 8 8	SNOENT	NCPER			01216	1 00597	2
A A 8 9		æ	STUIAG	GO RUN DIAG. IF NO ENTRY	01277	86500 L	000206
AA90		BCE	SREPR, SELTST, \$.	GO IF IN RELIABILITY MODE	01284 1	12 00605	80065400963\$
AA91		Sik	SICENT	SET WM IN ICENT	01256	11900 9	,01250
A A 92	SCOMP	ပ	J•0	SHGULD THIS PRCG.BE RUN	01302 1	1 00623	00000000000
A A 93		e C	SNCFO	GO IF NO	01313	7 00634	768900F
4644		రే	SNCFDEL	CLEAR NOT FCUND SWITCH	01320	1 000 9	06900¤
AA95		&	STCIAG	GO RUN DIAGNOSTIC	01326	7 00647	102000
AA96	SREPR	Z.	SREL IA, SYSREL	SET REL INDIC/SET SYS REL INDIC	01333	11 00654	•0099700578
AA97		MLZS	01246, SRESPL	STORE ZONE IN CASE SYSTEMS TEST	01344	12 00665	D01246009322
A 498		3 2 2	STCIAG, RELIA,-	GO RUN IF RELIABILITY PROG	01356 1	12 00677	W0200001247-
9944	SNCFD	NCPER		NOT FOLND SHITCH	01368	1 00689	z
€		6 0	NESS	GO GET ANCTHER IF NCT YET FCND	01369	06900 1	100571
1 84		&	SCCENT	BACKSPACE SQURCE TAPE	01376	1 00697	J00982
AB 2		80	SSTART	GO REQUEST A REGUEST	01383	7 00704	100334

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CLOSED SUBRCUTINE TC BACKSPACE CIAGNOSTIC SCURCE TAPE.ENTER AI **LCCATION OC982. **SCGRIN ** BSP** **BAI **-11 **SCGRIN ** BAI **-11 **SCGRIN ** BAI **-11 **SCGRIN ** BAI **-11 **CLOSED SUBRCUTINE TC SKIP A RECCRO ON DIAGNOSTIC SCURCE TAPE.** **CLOSED SUBRCUTINE TC SKIP A RECCRO ON DIAGNOSTIC SCURCE TAPE.** **CLOSED SUBRCUTINE TC SKIP A RECCRO ON DIAGNOSTIC SCURCE TAPE.** **CLOSED SUBRCUTINE TC SKIP A RECCRO ON DIAGNOSTIC SCURCE TAPE.** **SCGRIN ** BAI **-11 **SCGRIN ** SARECORD ON DIAGNOSTIC TAPE ON OI421 7 00749 **SAREC SARBA ** BAI SARECORD ON OI454 7 00768 **SAREC SARBA ** BAI SARECORD ON OI454 7 00789 **SAREC SARBA ** BAI SARECORD ON OI454 7 00789 **SAREX SAITCEI SKIP I RECCRO ON OI461 6 00782 **SAREX SAITCEI SKIP I RECCRO ON OI467 7 00789	200	LABEL	CPCCD					.			NS TRUCT LON
*CLOSED SUBRCUTINE TO BACKSPACE CIAGNOSTIC SCURCE TAPE.ENTER AT *LCCATION C0582.* SCCRIN * BSP 10 BACKSPACE TAPE 01390 5 007111 SCCRIN * BA1 *-11 SCCRIN * BA1 *-11 SCCRIN * CAN BA	4 4	安徽 李公安 安安 安 泰	***************************************		**************************************	美名女子乔约森多名英森森泰尔斯特的李宗宗李林的女女的	市市				
### SCCRIN ** BSP 10 #### **-11 ** BA1 **-11 ** BA1 **-11 ** BA1 **-11 ** CLOSED SUBRCUTINE TC SKIP A RECCRO ON DIAGNOSTIC SCURCE TAPE. ###################################	44 80 80	*CLOSED S	SUBRCUT	Ç							
SCCEXI	A 88 6	*LCCATION	. 00582.								
SCCEXI	A 8 7	SCCRIN	e SP	10		BACKSPACE TAPE		01390			300% 200%
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B SCCENT SKIP I RECCRD 01454 7 00775 SM SATTCEI 01461 6 00782 SAREX B 0	AB21		60	SCCENT				01447	7 007		89600
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A B 2 7	REAC	PRC	PRCGRAM INTO L			•		
AB28	SBRDS		Ser	SBREXES	STORE BAR FOR RETURN	01474 7	00795	6008518
AB29	SBRRC	*	RIBGW	10, SCHLOD	READ TAPE	01481 10	00805	L78001000\$
A 830	SERBC	•	BEXI	4-16,3	BRANCH IF BUSY CR NCT READY	01491 7	00812	R008023
A 831	SERBE	*	BEF1	* 628	GO IF END OF FILE	01498 7	61800	R008538
A 8 3 2	SBRERR	. , •	BER1	SBRERC	GO IF DATA CHK IC TRY AGAIN	01505 7	00826	R009044
A B 3 3	SERBA	阜	B A 1	+8.1	CLEAR I/O INTERLCCK	01512 7	00833	K0084CM
AB34			ర్	SAITCEI	CLEAR TGSO SWITCH	9 61510	00840	E100547
A 835	SEREX		CC)	0	RETURN	01525 7	00846	000000
AB36			60	SARELO	BRANCH TO REWINE AND SKIP	01532 7	00853	100749
A837			4 80	* EB, SEL TST	BRANCH IF WP SEI	01539 12	00860	V00879009631
A 838			60	SSTART	BRANCH IF NO WM ENTERED	01551 7	00872	100334
A 839			Š	SELTST	CLEAR ENTERED NCRD MARK	01558 6	00879	E9600¤
A B 4 C			93 74	SSKW, SNOFDE1	BRANCH IF NCT FCUND SW IS SET	01564 12	00885	V00571006901
AB41			€	SSTART	BRANCH IF NCT SET	1 97510	16800	J00334
A842	SBRERC		BSP	10	BACKSPACE DIAGNESTIC TAPE	01583 5	0000	0.2008
A843	SERERP	*	E 4 1	+-11		01588 7	60600	R00904#
A 8 4 4			6 0	SBRRD	GO REREAD TAPE	01595 7	91600	100802
A845	*******************		****	- 李宗 年 章 李宗 李 李 李 李 李 李 李 李 李 李 李 李 李 李 李 李 李	电影电影电影电影电影电影电影电影电影电影电影电影电影电影电影电影电影电影电影			
A846	#SEARCH	SE	SEARCH SECTION CONST	CUSTANTS AND STCRAGE				
A847	SRESUL		K C K	ধে	TEMPORARY STORAGE	01606 5		
A848	SRESPL		M U U	SELTSTE5		01611 5	00932	89600
AB49			CCW	SELTST63		01616 5	00937	99600
A850	SCMPAC		20	SICENTES		01621 5	00942	01253
A 8 5 1	SCPIN		HOO	adp 110N Pa, G		01622 7	00943	•

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SEARCH SECTION	
	OPERAND
	00240
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A853	******	*************	************				
A854	*ROUTINE	ENTR 165	AND DATA COPMON F	*ROUTINE ENTRIES AND DATA COMMON FOR ALL DIAGNOSTICS			
A855		ORG	SNWORGE 386			00963	
A856		CCORG	SOCORGE386		01642	69600	
AB57	SELIST	DC	ී ් ලේ	OPTION REQUESTED	01642	4 00963	
AB58	SOCENT	SBR	SOCEXTES	ENTER HERE TO SPACE TAPE	01647	7 00968	6007478
A859	er e		SDCRTN		01654	7 00975	100730
ABEO	SCCENT	SBR	SCCEXT&5	ENTER HERE TO BCKSPCE TAPE	19910	7 00982	G00728B
ABEL			SCCRTN		01668	68600 L	10001
AB62		MOD	(•	SPARE 00996	01675	1 00996	
A863	SRELIA	2	(4	RELIABILITY INDICATOR 00997	91910	1 00997	
A864	SCHNNL	: #30 *:	(•)	CHANNEL CHARACTER 00998	01677	1 00998	
ABES	SBAOPC	DCW	(d) (0)	BA OP CODECTAPE WM 00999	01678	1 00999	
ABE6		DCM	(a (a	STOP MOVE OF SEARCH SECTION	01679	00010 1	
A867	SCCORG	CCORG			01680	01001	
A B & 8	******		***********	******************			
A 869	*RELCCATI	E SEARCH	RELCCATE SEARCH PORTION OF TAPE C	CONTROL			
े A870		ORG	SCCORG	《大·大·大·大·大·大·大·大·大·大·大·大·大·大·大·大·大·大·大·	1.	01680	
A871	SRELSH	ř.,	66000	CLEAR INDEX REGISTERS	•	01680	66000/
A872		¥5	INDEX8-4			98910 9	0,0000
A873	• •		SCHLOD, SSTART	MOVE SEARCH SECTION	-	2 01692	
AB74		MRCMG	SOCORG. SNMCRG		€	2 01704	
AB75		MRCMG	e de la companya de l			1 01716	٥
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AB78	米米米市中央市市北京市市市市市市市市市市		· · · · · · · · · · · · · · · · · · ·			
A879	*MODIFY SEARCH	SECTION FOR	SOURCE CHANNEL.			
ABEO	•	PMANYA	GO STORE BA OP	L	01718	101897
A B 8 1	DCW	a003328	FROM THIS LOCATION	L	01729	
A882	DCM	SBRERR	TO ALL THESE LOCATIONS	5	01734	00826
A 8 8 3	DCM	SBRERP		W	01739	60600
A B 8 4	₩ DC	SARBA			01744	19100
ABBS	MOO	SBRBC			01749	00812
A886	MOG	SBRBA		8	01754	00833
A887	MOO	SBRBE			01759	61800
AB88	MOO.	SCCRINES			01764	00716
A889	MOG	SDCRINES		y	69210	00735
A890	MOO	SBAOPC			01774	66600
A891	8	PMANYA	GO STORE CHANNEL INDICATOR		01775	101897
A892	DCW	a00323a	FROM THIS LOCATION	•	01786	
A893		SCHNNL	TO ALL THESE LOCATIONS	ín.	16210	86600
A894		SBREROE1			96210	00000
A895		SARNOEL			01801	00757
A896		SBRRD&1			01806	00803
A897		SCCRINEI		*	01811	00712
868		SDDRINEI		\$	01816	00731
A899	•	SSTART			01817	100334
AC	**********					
AC 1	A PE	ONE AND TWO				c
AC 2	PONEPH MRCWG	G CSINGL, BSETUP	SETUP MOVE MOST OF PHASE 2	12	01824	D0772700508L
AC 3	MRCWG	9			01836	•
AC 4	**********		· · · · · · · · · · · · · · · · · · ·			
AC 5	*MODIFY COMBINED	D PHASES FOR	IR SINGLE PHASE OPERATION.			
9) V	PONECC	CCHWIME			01837	000724
AC 7	SAR	BBEFDF65	PHASE I TAPE READ BEF OP	_	01843	G00506A
8 J¥	SAR	BPFASEE6	MOD DONE SWITCH BRANCH	1	01850	G00482A
6 J		PWILOD	GG RWD-WT LOAD PROG ALL OUTPUTS	JTPUTS 7	01857	108361
AC10	•	BPLASE		_	01864	200476

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	10,80	20 00		AC1.2	1 CU	AC14	AC15	AC16	AC17	AC18	AC19	AC20	AC21	AC22	AC23	AC24	AC25	AC26	AC27	AC28	AC29	AC30	AC31	AC32	AC33	AC34	AC35	AC36	AC37	AC38	AC39	AC40	AC41	AC42	AC43	AC44	9 C 4 S	AC46
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AC50	3 2 2 3 3 4	E S	CCNCERNING MEMCRY	S	IZE, CUNIKUL CAKUS, SUUKCE UF INTUIS			
AC51	* AND	AND CUTPUTS	uts					F 00 7 0
AC52	PTYAZ	æ	80	TYPI		-	02043	20000
AC53			M U U U	ACCRE SIZEM 0-10K.	C-1CK,1-2CK,3-4CK,ETCa,G	32	02081	
AC54			RCP	7Sd	ONE GIGIT	2	02083	M%1006633R
AC55			8EX1	*-16.	GO ANY BUT WLR & DATA CHK	~	02093	R02083
AC56		သ	841	PTYAZ	GO ANY	7	05100	R02043M
AC57			.	PMANYA	GO STORE CORE SIZE DIGIT	7	02107	101897
AC58			CCW	P S Z		5	02118	06633
AC59			1 N	PCRS12		Ś	02123	06635
AC60			CCM	PRELPCE6		S	02128	04277
AC6.1			CE	PWIPHCE4		S.	02133	04294
AC62			M O O	PCR52		\$	02138	06628
AC63			•	PCRS1261, PCRELE1	SET MEMORY SIZE IN INSTRUCTNS	11	02139	AC663608164
A 7 4			4	PORS1261, ECREL61		=	05120	AC663609828
ר עט עט עע		Œ	M C	abra, BCRCLRE1	SET PHI FCR 10K	12	02161	006676007751
A 76.5		a.	BCE	PNCP612,PSZ,0	BRANCH IF 1CK SYSTEM	12	02173	802233066330
AC 6.7) CE	W.L.C.A	a.ea.BCRCLRE1	SET PHI FOR OK	12	02185	000678007751
AC68		, su	E CE	PNCP612,PSZ,1	BRANCH IF 20K SYSTER	12	02197	802233066331
AC69		ر م	MLCA	anna, BCRCLR E1	SET PHI FOR 40K & UP	12	02209	D06680C0775T
AC70	PNCP	U	PLCS	anna, Bsubon-7	NOP PHI BL CP FCR 4CK & UP	12	02221	006800089903
AC71		2 0	MO2	(d) ≥ (e)	UNNECESSARY-REMCVE LATER	15	02247	
AC72		a u						
AC73			M C C A	a a, PCCS&1	BLANK CCNTRCL CARD SOURCE	12	02248	006682066351
AC74	PIYA		6		•	1	0220	106087
AC75			X 00	ACCNTRCL CARD SOUR	SOURCE Mas G	21	02287	
AC76			RCP	PCCS-1	READ CCNTROL CARD SCURCE	30	02289	M%1006637R
AC 2.7			BEX1	*-16,K		7	02299	R02289M
AC78			EA1	ب س *	ANY ERRORS	_	02306	R02313M
AC79			BCE	PMCTS, PCCS,	BRANCH IF NC SCLRCE	12	02313	80254906638
AC80			BCE	PSYS, PCCS, I	TYPENRITER SOURCE	12	02325	802357066381
AC81			NC DE			,	02337	Z
AC82			BCE	1 CCCC , PCCS-1, M	FUR MANUFACTURINGS USE	12	02338	B100CCC6637M
AC83			æ	PCARC	CARD CR TAPE SCURCE	-	02350	104343

PAGE 51 INSTRUCTION	JC6C87 J01871 00998 00077 00134 00191 00248 00305 00305 R02419 R024509 C0664406572 J024795 J024795
DEC 31 1964 PAGE CT ADDRS INST	02357 02380 02382 02393 02403 02403 02413 02419 02429 02429 02461 02461 02461
DEC 3	
UPDATE SECTION PRE-PHASE	TYPERRITER SOURCE S SYSTEM CARDS OF 1632 1653 2656 2656 4656 4656 4656 A TYPENRITER M TYPENRITER STORE BAR I STORE BAR TURN OFF 1/C INTERLECK SYSYS ANY ENTRY BRANCH IF NC ENTRY BRANCH IF ANY ENTRY SILLNO CLEAR WM IF ANY ENTRY ER CHAN 1 CARD2 OF
DPERAND	PALCAS PALCAS LOSYSIG32 LOCHN2656 LOCHN3656 LO
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-1 UJ (C) (C) (T)	PSYS B TYP1 B PALCWS B B PALCWS B B B B B B B B B B B B B B B B B B B
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AC 6	****	医锥虫 麻皮拉斯洛斯斯氏 牵骨夹骨 医多种氏管 医多种	2.我是 化聚聚苯酚 化化氯化 化二甲基甲基	(在我都我们在我们的现在分词不是在我们的人的现在分词 医阿拉氏氏征 医阿拉氏氏征 医阿拉伯氏征			
AC 7	* ENTER	CHAN 1 CONTRCL .	CARE FROM	TYPERRITER			
8 24	PCHA	RCP	LOCHNI	READ CHAN I CARD	2	02504	MTT CCCC 18R
6 Q v		SER	PSY	SICRE BAR	12	02514	606646
ACIO		BEXI	PCP A CR	BRANCH ON ANY BLT NER	jeo.	12520	R02504
4011		EAI	 	TURN OFF I/O INTERECCK	F~	02528	ROZESSE
AD12		v	PSYLPSYONE	ANY ENTRY	5-4 5-4	02535	C0664406517
ACI3		80 W	213	BRANCH IF NC ENTRY	F	02546	3995201
A014		Š	LOCKNILLNO	CLEAR WE IF ANY ENTRY	 	62553	D0007803496
ACIS		en E	PCFBH, LOSYSI	BRANCH IF NG SYSTEM CARD ENTRY	12	02566	V02595000451
AC16		BCE	PCFEW, LOSYSIE13,1	SRANCH IF CHAN 2 AVAILABLE	1.2	91520	802595000581
ACLT		~	PMCTA	BRANCH TO MASTER DUMP SCURCE	~	02588	102912
A D 1 8	PCHEK	යා	TYPI		-	02595	180901
ADIS		30	BENTER CHAN Z CARDE, G	900	puri puri	02618	
AD20			医电压 化苯汞化物医苯酚苯酚 医克格特氏病	医西巴氏虫虫 医马克氏氏试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检			
AC21	* ENTER	CHAN 2	CONTRCL CARD FROM INPENRICER	ENKECER			
A022	PCMB	RCP	LOCHNZ	READ CHAN 2 CARD	03	02920	K%T000135R
AC23		SER	₩. Y.S.d	STORE BAR	 -	02630	\$06644B
AC24		BEXI	PCTB	ERANCH ON ARY GET WER	~	02637	R02620Ř
A 025		EAL	<u>س</u> ن پ	BURN OFF 1/C INTERLCOK	۲	02666	R02651M
AC26		U	FSY, FSYTHO	ANY ENTRY		15920	28390559900
A 027		8	2134	GO IF NO ENTRY	F≃•	29920	2029201
A 0.28		3	LOCKNZSLNO	CLEAR WE IF ART ENTRY	⊶	59920	E0013503496
620V		E	PCHCHICOSYSE	BRANCH IF NC SYSTEK CARD ENTRY	77	08920	15>000111200
AC30		BCE	PCHCK.LOSYSICIA.1	BRANCH IF CHAN 3 AVAILABLE	2	26920	165000111200
AC31		ట	PHETA	BRANCH TO HASTER DUPP SCURCE	ř°	02704	102912
AD32	PCKCK	60		IADE	۳	11120	106087
A033		# 000	ZENTER CHAN 3 CARDERS	9.86	17	02736	

1050			UPDATE SECTION				
PGL IN	LABEL	00000	OPERAND		5	ADDRS	INSTRUCTION
# L# D	****	· · · · · · · · · · · · · ·		计算数据 医线线 医线线 医线性 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影			
A036	* ENTER	* ENTER CHAN 3 CC	CARD FROM	TYPENRITER			
AE37	2 ±2¢		LOCHN3	READ CHAN 3 CARD	91	02736	MZ T000192R
AF 3.8		SBR	\S d	STORE BAR	-	02746	G06644B
A F 30		BEX1	PC+C. X	RANCH ON ANY BUT WER	•	02753	R02736M
,		841		TURN DEF 1/D INTERLECK	~	02760	R02767M
7 7 7			PSY. PSYTHR	ANY ENTRY	11	02767	C0664406587
1.4.1				GO IF NO ENTRY		02778	J02796S
, r,			+ DCHN3END	CLEAR MM IF ANY ENTRY	7	02785	H0019203496
772			I SASO F MO TO C	BRANCH IF NO SYSTEM CARD ENTRY	12	05196	V02827000451
7 W		. B. C.	DCHUM-LOSYSIE15-1	BRANCH IF CHAN 4 AVAILABLE	12	02808	. 802827000601
774				BRANCH TO MASTER DUPP SOURCE	-	02820	302912
A547	90404	s	IAAL	IAPE.	2	02827	106087
- α - 4 		**************************************	SENTER CHAN 4 CARDS, G		11	02850	
20404						4	
A050	. ENTER	Ŧ	DNTROL CARD FROM TYPEWRITER	PEWRITER			
1634	PCTO		LOCHN4	READ CHAN 4 CARD	2	02852	MX1000249R
AC52		SBR	P.S.Y	STORE BAR		02862	G06644B S
AE53		BEX1	PC+0.M	BRANCH ON ANY BUT WLR	_	02869	R02852M
AC 54		BA1	13.	TURN OFF 1/C INTERLECK	_	02876	R02883M
AC55		Ü	PSY. PSYFOR	ANY ENTRY	11	02883	C0664406592
ACSA		98	*112	GO IF NO ENTRY	2	02894	3029128
AD5.7		3	LOCHN4.LNO	CLEAR WM IF ANY ENTRY	=	02901	n0024903496
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DMOTA	æ	PMLCWS	GO RESTORE RECORD MARKS	7	02912	101871
AC59		*30	PWMGMRE1		ĸ	02923	07694
AC60		DCM	L05Y51£32		ĸ	02928	22000
AC61		BCM	FOCHN1656		2	02933	00134
AC62		#OC	LOCHN2656		ν. •	02938	
A063		DCM	FOCHN3656		v	02943	4
A064		M O O	LOCHN4656		5	02948	00305

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PGL 1N	LABEL	00240	OPERAND		3	ADDRS	INSTRUCTION
Ansk	****	****					
AC67	*ENSURE U	NAVA ILAB	UNAVAILABLE CHANNELS HAVE BI	BLANK DATA IN CONTROL CARDS.			
AC68	PMCTS	. <u>3</u>	POIAGS, LOSYS1	GO IF NO SYSTEM CARD ENTERED	12	02949	V03015000451
AC69		BCE	*67,LOSYS1813,1	GO IF CHNZ PRESENT	12	02961	802979000581
AC 70		3	LOCHN2	FORCE BLANK CHN2 IF CHN2 ABSENT	•	02973	a00135
AC 71		BCE	*67,LOSYS1614,1	GO IF CHN3 PRESENT	12	02979	802997000591
AC72		3	LOCHN3	FORCE BLANK CHN3 IF CHN3 ABSENT	•	02991	п00192
A073		BCE	*£7,LOSYS1615,1	GO IF CHN4 PRESENT	12	02997	803012000601
AC 14		3	LOCHN4	FORCE BLANK CHN4 IF CHN4 ABSENT	•	03000	B00249
A075	POIAGS	6	TYP1		~	03015	106087
AC76		DCW	adiaGNOSTIC TAPE	SOURCE Ma.G	24	03045	
AD77	*****	*******	HOSE CHAVORONS OF TAXABLE PARTIES OF TAXABLE PARTIE				
AF 70		ACP ACP	PDTS		2	03047	MZT006645R
		SAR	AS d	STORE BAR	,	03057	6066448
) «C		8081	*-23	BRANCH IF BUSY	~	03064	R030472
ACR2		BEX1	PMCTR.M		7	03071	R03047M
ADE3		841	13.	ANY ERRORS	7	03078	R03085H
ACe4		v	a16,05Y		=	03085	\$0668306644
AC85		ပ	PSY, EPCTS	COMPARE ADDRESSES	11	96060	C0664406688
AC86		2	PMCXX	GO IF ANY ENTRY	~	03107	J03152/
AC87		NS	BPLASE61	SET WM IF NO ENTRY	•	03114	.00477
AC88		3	BENDPHEL, BEQUALEL			03150	m0096300565
AD89		SAR	BMOCONE6		~	03131	G00525A
A090		SBR	BCPLOWES		~	03138	6005558
A091		60	PENI-1		2	03145	303405
AC92	PMCXXT	3	ERWAND		•	03152	п08248
A D 9.3		MLNS	PDTSE1, BRTBGWE3	MOVE DRIVE NUMBER	12	03158	006646004871
760V		MLCS	PDTS, PLE	MOVE CHAR TO LOCKUP	12	03170	006645066743
An95		ü	PLE, PCHTBL	FIND CHANNEL LETTER	12	03182	106674066222
AFGA		888	93*	STORE ADDRESS OF CHANNEL CHAR	7	03194	6032068
760 4	•	MLCS	00000, BBKSPM61	STORE 1ST CHANNEL INDICATOR	12	03201	000000000000
AC98		SAR	PMCTRX	STORE ADDRESS OF BA OP		03213	G03278A
A099		60	PMANYA	GO STORE CHANNEL INDICATORS	7	03250	101897
		MUC	BBKSPME1		<u>ن</u>	03231	96900
		300	PREWND&1		5	03236	07975
)						1760	73000

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		UPDATE	SECTION PRE-PHASE		ADDRS	PAGE 55 INSTRUCTION
LABEL	00040	OPERAND				
	M D D	ESPASOE1	CHANNEL CHARACTER	S		08854
	≭ 00	EINCCO		(67060
	M)	BRTBGWEL				00485
	300	PMCREE1				03372
	M CC C	PWC SPE1		•		03389
	a)	PMENYA	STORE BA CP			301897
PMCTRX	3 0 0	(d		S		
	M CC 20	BRIBGWEIC				96500
	MOD	BBKSPME5				00/00
	MOO	PRENND85				67579
	M C C M	ERACSOE5				08260
	M)	ESPASOE1C	8A CP		5 03503	08863
	™ 00	EINCCOEI				04060
	M C C M	PREFUE			5 03313	00501
	M C C M	PMCREE10				03381
	MUU C	PMESPE10			5 03323	86660
	60	PMANYA	STORE DRIVE NUMBER			30105
	MOC	BRIDGWE3			09880 - 5	07977
	30 C	PREWND63			5 03345	08258
	<u>ح</u> ن	FKFLSUSS			5 03350	08856
	3 i	ESPASUES GIAPPOS			5 03355	09051
	ב ז ט נ	HAKSPE3			5 03360	86900
	: 3))))	PLCREE3			5 03365	03374
	300	PMC SP & 3			5 03370	03391
7 7 7 7 8	RKO	10	REWIND DUMP TAPE		5 03371	UZUOR
	M C C M	(e Z	SPACER LCCATION		5 03380	ဖ
	EA1	BERRCK			7 03381	R0C306M
PNCSP	M CC M	auru1Aa	SPACE 1 RECORD			
	CCW	(3	SPACER LCCATION	•	5 03397	
	BA1	BERRCR	ANY ERRCR		7 03398	
	NCPWM				1 03405	
PENT	3 0	LYES	SWITCH CHOCK STATE OF THE STATE		7 63406	
PEC 1S	&	JYP1			7 03413	106087

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PGL IN	LABEL	CPCOD	OPERAND		CT ADDRS	INSTRUC
A E 40		***************************************				
DE41	* POCIFY	Y FCR CARE IMAGE		SCURCE AND READ THE FIRST ONE INTO		
A E 4 2	THE C		AREA			
AE43	PEC 18	RCP	PCCS-1	READ CARD IMAGE SOURCE	10 03440	M%T006637R
AE44		SeR	PSY	STORE BAR WITH THE STORE	7 03450	
A E 4 S		BEX1	PEC IR. P		7 03457	
AE46		BA1	13	ANY ERRCRS	7 03464	
DE47		U	PSY.PEPCIS	ANY ENTRY	11 03471	C06644C6604
A E 48		1	PYES	BRANCH IF ANY ENTRY	7 03482	103510/
AE49		¥S.	BMCCCN&1	SET MOD DONE SWITCH	6 03489	.00520
AESO		NCP			1 03495	2
DEST	LNC	æ	PECENA	GC IF NC CONTROL CARD CHANGES	7 03496	J04825
AE52		e u	LYES		7 03503	303606
AE53	PYES	€	PCACIM	BRANCH TO READ CARD IMAGE	7 03510	106132
AE54		2 0	PCKECF	GC-INVALID IG UNIT CR ECF	7 03517	103560
AESS		BCE BCE	PYES.CIMAGE.	BRANCH TO IGNORE BLANK CARD	12 03524	80351000601
AES6		BOE B	PLEVEL, CIMAGE, L	BRANCH IF TAPE LEVEL CHANGE CARD	12 03536	B0983900601L
AFET		BCE BCE	LYES, CIMAGE, X	AH HA-FCUND CHANGE CARD-GO PROCES	12 03548	R0360600601X
AESB	PCKECF	38 3	PYES	TRY AGAIN IF EOF CN REACER	7 03560	J03510S
AESS		&	1461	GO TYPE ERRCR MESSAGE	7 03567	106087
AEEO		E CCM	ACARD IMAGE ERROR-	ERROR-FIXITa.G	22 03595	
AECI		න න	PECIS		7 03597	J03413
DE62		R CCM	AN A UNNECESSARY-	UNNECESSARY-REMOVE LATER IF SPACE IS NEEDED.	2 03605	
AE63	LYES	PLCA	PCRDAA63.BREADC63	MCDIFY CARD IMAGE	12 03606	D0633800711T
AE64		æ	PMENYA	READ	7 03618	101897
VE65		M CC	PCRDAA610	INSTRUCTION	5 03629	06345
AEEE		CE	BREAUCEIC		5 03634	00718
!						• .

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PCRDAAE3,CPFCC0E3

PLCS

MUU

AEE8 AEE9 AB7C

DE67

PLCS

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BREACCE17 CPFCCOE5 03657

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PGL IN	LABEL	00240	CPERAND		C 1	ADORS	INSTRUCTION
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AE 73				•			•
AE /4	* MUCIFY	TKOCK PE	Į.	THE BUTTER TAFE			
AE75		6 0	PECENB	GC CHECK ON AUTC EDIT	~	03659	304838
AE76	PBUFER	80	TYP1		7	03666	106087
AE77		M D C M	ABUFFER TAPE DRIVE		61	16980	
AE78	LYER	RCP	PDTS	READ	10	03693	MXT006645R
AE79		SBR	4S4	STORE BAR	7	03703	6066448
AEBO		BEXI	LYER.M		•	03710	R03693M
AEB1		B.A.1	PBLFER		2	03717	R03666M
AE82		U	PSY.PBPDIS	ANY ENTRY	11	03724	C0664406609
AE 83		-8E	PBUFER	NC ENTRY	1	03735	3036665
AE84		MLCS	PDISE1.LBUNT63	MODIFY BUFFER TAPE	12	03742	006646009033
AE85		MLCS	PDIS, PLE	MGVE CHAR TO TABLE LOOKUP	12	03754	006645066743
AE86		H	PLE, PCHTBL	FIND CHANNEL CHAR IN TABLE	12	03766	106674066222
AERT		SBR	93*	STORE BAR	7	03778	6037908
AEE8		MLCS	C, LBUWTE1	STORE CHANNEL CHARACTER	12	03785	00000000000
AE89		SAR	93.	STORE BAR	1	03797	G03809A
AE90		MLCS	0,LBUWTE10	STORE BA OP	12	03804	00000000000
AE91		80	PBUFER	INVALID SELECTION	7	03816	7999606
AE92	-	€	PSTRBF	GC STORE BA OP. DR NO. CHAR		03823	J05812
AE93	PBCRE	RWD	01	REWIND BUFFER TAPE	.v	03830	UZUOR
AE94		MOO	(B)	SPACER LOCATION	.	03839	•
AE95	•	8 A 1	BERROR		~	03840	R00306M
AE96	******		************				
AE97	*FINC ALL	. OUTPUT	TAPE LOCATIONS-MODIFY ACCORDINGLY.	FY ACCORDINGLY.			
AE98	POUTY	60	TYP1	•	_	03847	106087
AE99		MOO	SOUTPUT TAPE DRIVES MasG	0°05.	20	03873	
E		80	83.	GO GET OUTPUTS	7	03875	303889
AF 1		60	PREOT		•	03882	104197

05		٠	UPDATE SECTION PRE-PHASE	HASE		ď	PAGE 58
PGLIN	LABEL	OPCOD	OPERAND		CT AD	ADDRS I	INSTRUCTION
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AF 3	************	CH UNITED RREA	GET OUTPU				
r 16 L U.	PECYEE	SBR	ER-7 SET RETURN	ADDRESSES	7 03	03889 G	6040948
9 14		SBR	PACERES		7 03	03896 G	6041068
AF 7		RC P	POUTRS		10 03	03903 M	M%T006648R
AF 8		SBR	PSY STORE BAR		7 03	03913 G	6066448
AF 9		BEXI	#-23,M BUT WLR	BUT WER	7 03	03920 R	R03903Å
AF10		BAI	*E1 TURN OFF INTERLOCK	TERLOCK	7 03	03927 R	R03934M
AF 11		SH	PRCTAB62		6 03	03934	,01994
AF12		SAR	PMLNEIC PRDTABEL TO PMLNEIO	PMLNE10	7 03		G04147A
AF13		S			1 03	03947	
AF14		SAR	PALCEIC PRDTAB TO PALCEIO	MLCE10	7 03	03948 G	G04039A
AF15		U	PSY.POUGNE ANY ENTRY		11 03	03955 C	665404599
AF16	PECYEJ	86	POLTY NO ENTRY		7 03	C 996EO	J03847S
AF17		S	INCEXB ZERO INDEX REG	REG	6 03	03973 \$	200044
AF18		PLCS	POUTYES, POUTRSE24 INHIBIT TAB	INHIBIT TABLE OVERFLOW	12 03	03979 [003853066723
#F19.		MLCS	POUTRSEINDEXB, PLE MOVE FIRST CHAN IND		12 03	16660	D06W48066743
AF20	PLUE	F	PLE, PCHTBL FIND CHANNEL LETTER		12 04		T06674066222
AF21	÷	SBR	PALCES		40 7		6040348
AF22	PECYEM	08	POLTY GO IF INVAL	INVALID CHANNEL	40 2	04022	103847/
AF23	PMLC	MLCS	OOCCOO, PRDIABEINDEXB		12 04	04029 [0000000012923
AF24		SAR	PMLX65		7 04	04041 (G04071A
AF25		SER	PMLXE10		40 ~	04048 (6040768
AF26		⋖	PACER, PMLXEIG ADD 2		11 04	04055	A0410104076
AF27	PMLX	MLCS	00000 • 00000		12 04	04066	£000000000000
AF28	PAD	< 4	ala, INDEXB INCREASE IX		11 04	04078	A0668300044
AF29		BCE	PREDI, PRDIAB626INDEXB, M GO IF 2N	D TBL FULL	12 04	04089	B0419707294M
AF30	PADER	BCE	PREGT, POUTRSEINDEXB, GO IF	TBL FULL	12 04	10150	B0419706W48
AF31	PEDYEG	BCE	POUTY, POUTRSEINDEXB, P GO IF I	GO IF TBL FULL & EDITING	12 04	04113	B0384706W48M
AF32		886	PZGN, POUTRSEINDEXB, 6 GO IF ZONE	PRESENT	12 04	04125	M0415606W48E
AF33	PMLN	MLNS	POLTRSEINDEXB, PROTABELEINDEXB		12 04	04137	D06W48072931
A 134		60	PAC MOVE NEXT CHAR	CHAR	70 7	64140	304078
AF35	PZON	MLCS	POUTRSEINDEX8, PLE MOVE CHAR FOR LOOKUP		12 04	95150	D06W48066743
AF36		◀	als, PMLCEIC UPDATE ADDRESS		11 0	04168	A0668304039
AF37		⋖	BIR, PMLNEIC UPDATE ADDRESS	RESS	11 0	04110	A0668304147
AF38		.	- To the second		ò 2	04190	104003

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AF40	**************	******	· · · · · · · · · · · · · · · · · · ·			
AF41	*CHECK FCR SINGLE	E PLASE OPERATION.				
AF42			GO IF MCD DONE SET-NO CRD IMAGE	12	04197	V04216005201
£739		E = 3	MCRE THAN ONE PHASE	1	04209	J04228
774		_	GO-NO CNIRL CRD CHANGES EITHER	12	04216	V01824034961
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7.74	B HOUSE	PO*PPH	GC RELOCATE PHASES 2 & 3	1	04250	104264
. 62.4	81C81H	BPFASE	GO OPERATE 2 OR 3 PHASES	7	04257	300476
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AF56	MRCMG	• • • • • • • • • • • • • • • • • • •		 .	04285	3
A 52 4	PRCMG	9		-	04286	
A F 5 B	PRCMG	9		-	04287	۵
0.57	PRCK6	9		-	04288	•
AFEC	PRCMG	9		-	04289	
AF61	******	*************				
AF62	#CUMP PHASES 2 6	£ 3.				
AF63	PMTPFC . WIBEM	W 11.PPHASE	B ADDRESS MODIFIED	01	04290	L 28107695X
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19	F75	y	CIMAGE 63, PCREBL		12	04369	100604044962
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93 CCW PCARCF 94 PCRCEL 95 PCARCA EU PCRCRR 95 PCARCA EU PCRCRR 96 PCARCA EU PCRCRR 97 PCARCA EU PCRCRR 98 PCARCA GC DUE TO ERROR 97 PCARCE 98 PCARC GL LOSYS1 CLEAR INDICATOR 99 PCARCE Ch LOSYS1 CLEAR INDICATOR 99 PCARCE Ch LOSYS1 RCVE NEW SYSTEM CARD 11 B PCCMPN 12 PCARC 13 PCARCC Ch LOCHNI CLEAR INDICATOR 99 PCARCC Ch LOCHNI CLEAR INDICATOR 90 PCCMPN 14 PCARCC Ch LOCHNI RCVE NEW CHNL 1 CARC 12 04560 90 PCCMPN 9	18 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 	22	aCFN3a		4	04487	
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56 Bh PANYCO.PANYCOEI GC IF A CARD WAS READ 12 04504 57 B PCARC GC TRY AGAIN-EOF WAS ON 7 04516 59 MCGWS CLEAR INDICATOR 6 04523 59 MCGWS PWGPREI.CIMAGE644 SEI * TO STCP POVE FOR SYSTEM 12 04529 1 B PCCPPN 12 04561 2 PCARC Ch LOCHNI CLEAR INDICATOR 6 04553 3 PRCR CIPACEEI2.LOCHNI MCVE NEW CHNL 1 CASC 4 B PCCPPN 7 04578		na	PCRURR	GC DUE TO ERROR	~	16440	79716/
97 B PCARC CLEAR INDICATOR 6 04523 98 PCARC Ch LOSYS1 CLEAR INDICATOR 6 04523 99 MCGWS PWPGPRE1.CIMAGEG44 SET # 10 STCP POVE FOR SYSTEM 12 04529 1 RCR CIPAGEGIZ.LCSYS1 MCVE NEW SYSTEM CARD 7 04553 2 PCARC Ch LOCHNI 6 CLEAR INDICATOR 6 04560 3 PCCPPN 7 04560 4 B PCCPPN 7 04578	.26	8	PANYCO. PANYCEEL	GC IF A CARD WAS READ	12	04504	V04702047031
98 PCARCB Ch LOSYSI CLEAR INDICATOR MCGWS PWFGPREI.CIMAGEC44 SET # 10 STCP POVE FOR SYSTEM 12 04529 12 04529 1		6 0	PCARC	HAS	7	04516	104343
99 MLCWS PWFGFREI-CIMAGEC44 SET # TO STCP FOR SYSTEM 12 04529 1		చే	LOSYS1	CLEAR INDICATOR	•	04523	B00045
1 B PCCPPN 2 PCARC CLACELISTENT CARD 12 04541 2 PCARC Ch LOCPN1 CLEAR INDICATOR 6 04560 3 PCCPPN 6 PCCPPN 7 04558 4 B PCCPPN 7 04578	65:	MLCWS	PWPGPRE1.CIMAGE644	FOR	12	04529	001694006457
1 B PCCMMN 7 04553 2 PCARCC Ch LOCHNI CLEAR INDICATOR 6 04560 3 MRCR CIMACEEI2.LOCHNI MCVE NEW CHNL 1 CARC 12 04566 4 NGCMMN 1 04578		MACR	CIMAGEG12, LCSYS1	MCVE NEW SYSTEM CARD	12	14540	00061300045.
2 PCARCC Ch LOCHNI CLEAN INDICATOR 3 PRCR CIPACEEI2.LOCHNI MCVE NEW CHNL I CARC 12 04566 4 PCCMMN 7 04578	-4	&	PCCWWN		~	04553	104677
3 PRCR CIPACEEIZ.LOCHNI MCVE NEW CHNL I CARC 12 04566 4 7 04578	~	చే .		CLEAR INDICATOR		04560	000078
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9 9 V	PCARCO	ర	LOCINZ	CLEAR INDICATOR	•	04585	B0C135
7 97		FRCR	CIPAGEE12, LOCHNZ	MOVE NEW CHNL 2 CARD	12	16540	00061300135.
80 9		Œ	PCCPPN		-	04603	104677
6 9	PCARCE	ō	LOCENS	CLEAR INDICATOR	•	04610	261000
AG10		Y RCR	CIMAGES 12. LOCHN3	MCVE NEW CHNL 3 CARG	12	91950	00061300192.
- C		•	PCCPPN		1	04628	104677
A612	PCARCF	5	LOCEN4	CLEAR INDICATOR	. c	04635	B00249
A613		7 2 2 2 3	Z	a UNNECESSARY NOP	54	99990	
A 1.0 A			CIMAGES 12, LOCHN4	MOVE NEW CHNL & CARD	12	04665	00061300249.
	0 0 0 0 0 0 0	N.	P AN YCDE 1	SET CNTHL CRD READ SWITCH	•	04677	.04703
A616		3	LNC		9	04683	96%£0a
AG17		60	PCARD	GC READ ANOTHER CARC	_	04689	J04343
AC18	FCFCRE	SF	PENT	SET CHANGE CARD INDICATOR	.	04696	• 03406
AC19	PANYCC	NCPER				04702	2
A G 2 O		•	PRECE	GC IF AT LEAST CNE CARU READ	1	04703	304749
A621		ರೆ	PENT	CLEAR CHANGE CARD INDICATOR	ç	04710	n03406
AG22	PCRCAR	&	TVPI		7	04716	106087
AG23		M O D	VALID CARC	INAGES.G TO THE PROPERTY OF T	18	04140	
AG24		&	PIVA	GC RE-RECUEST	-	04742	902260
A G 2 5	FRNDCI	BCE	PRACC. PCRUAA62.B	GC IF TAPE SCURCE	12	04149	804768063378
A626		.	PMCTS		-	19150	102949
AG27	PREC		PMCTS, PENT	GO IF CHANGE CARD ON SAME TAPE	12	04768	V02949034061
A G 2 B		PLCS	PCRCAAE3.PRNCOE3	PREPARE TO RNU CNIRL CRD SOURCE	12	04780	006338048093
AC29		MLCS			-	04792	0
A C 3 O		FLCS			-	04793	0
A G 3 1		PLCS	PCRUCC, PRWCDES		12	04794	006345048113
AG32	PRACE	RAU	11	RNU CONTROL CARD SOURCE TAPE	5	04806	01020
AG33		BAI			7	04811	R04806N
AG34		6	PMCTS		1	04818	J02949
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VG 3 7	*PREFARE	FOR AUTC	EDIT IF CESIRED.			
AC38	PECENA	SE	PFCENO	ENTRY IF NO CHANGES	6 04825	6 . 04859
6634		80	PECENC		7 04831	1 304844
0640	PECENB	3	PECEND	ENTRY IF CHANGES	6 04838	3 004859
4641	PECENC	æ	PECSHA	GC FING OUT IF EDIT IS DESIRED	7 04844	. J04873
4642		ക	PECYEA	RETURN HERE IF YES	7 04851	1 304978
4643		NCP		RETURN HERE IF NO	1 04858	2 ~
4694	PECENC	€0	POLTY	EXIT IF NC CHANGES-NO EDIT	7 04859	9. J03847
8645	PECENE	80	PBLFER	EXIT IF CHANGES-NO EDIT	7 04866	303666
A646	****	******				
A647	*SECLE 1	THIS BE A	AN ALTO EDIT RLN.			
A G 48	PECSFA	SBR	PECSHBES		7 04873	3 6049748
0649 V	PEDSFC	•	TYPI		7 04880	106087
0690		X 20	BALTO EDIT M Y/NB.G		15 04901	
1694		RCP	PECSHO		10 04903	3 MZT004976R
A 652		eex1	Z-97-		7 04913	
AGS3	PCNSTR	6 A 1	13.		7 04920	R04927H
7654		BCE	PECSHB, PECSHC, Y		12 04927	
AGSS		BCE	*C8.PECSFC.N		12 04939	80495804976
A G 5 6		€	PECSFC		7 04951	1 304880
A 657		4	PECSHA, PEDSHEES		11 04958	3 A0487304974
A C 58	PECSFB	œ	00000		7 04969	000000
A 659	PECSFC	¥J2		ANSPER	1 04976	

1650				UPDATE SECTION	ECTION PRE-PHASE			PAGE 63
PGL IN	Z	LABEL	OPCOD	NPERAND		5	ADDRS	INSTRUCTION
4.							. •	
AG62	7	*******		************				
AG63	3	*REGUEST	EDIT OUTPUT	PUT DRIVES				
AG64	4	PECYEA	MLNS	*£13,PEDYE	SET TO REQUEST 1 DRIVE	1.2	04978	005002050261
A 66			¥ 60	*£12,PEDEND	GC IF SINGLE PHASE	12	06650	V05013048591
A G 6	ف		<	10, PEDYE	CHANGE TO REQUEST 2 DRIVES	11	05002	A0500205026
A G6	-		3	CMASTM61	PROVIDE FOR EDIT MASTER MESSAGE	9	05013	п08268
A G6	60	PECYEC	6	TYPI		7	05019	106087
A G6	6	PEDYE	MOO	20 CUTPUT TAPES M	ى • • • • • • • • • • • • • • • • • • •	16	05026	
AG70	0	PECYEB	MLCS	PLE-1, POUTRSE5	SET GM/WM & CLEAR READ AREA	12	05043	D06673066533
AG7	, m		MLCS			-	05055	
AG7	~	î,	MLCS			-	95050	
A G 7	, m		MLCS			-	05057	0
AG7	4		MLCS			-	05058	0
AG7	ñ		MLCS			7	05059	
AG7	. •			PEDYEC61	INITIALIZE ADDRESSES	•	09050	B05020
V P C J				PECYEGES		-	05066	G04118A
₽	.		SAR	PECYEH65		1	05073	G04027A
AGI	6			PECYEJES		~	05080	G03971A
A 680	0	PEDYZX		PECYEE	GO GET CUTPUTS	-	05087	103889
A681	11		_	12, POUTRSES	ELIMINATE GM/WM	15	96050	D05093066533
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AG84	· ·	SELECTION CHARAC	TERS FOR E				•	
AGES		386	PECYEC, POUTRS&1, &	GO IF INVALID DRIVE		12 05106	36499061050M 9	
A G86		MLCS	POUTRSE1, PMESMXE1	OUTPUT I CHNL & DRIVE CHARS.		12 05118	8 D06649090313	
A G 8 7		MLCS			•	1 05130	0 0	
AG88		MLCS	POUTRSE1, PMESMZE1		- -	12 05131	1 006649083433	
AG89		MLCS				1 05143	3.0	
A G 9 0		BCE	PECYEC, POUTRS&1.	GO IF NO DRIVE NUMBER		12 05144	4 80501906649	
A691		ML C8	PRCTAB62, ECUIPI	SET PHASE 3 GUTPUT		12 05156	6 D0799409029L	
A 692		MLCS	PRCTAB, LBUNTE1	MCVE GUTPUT I CHNL INDIC-PHI		12 05168	8 007992009013	
A 693		MLCS	PRCTABE1, LBUMTE10	MOVE OUTPUT 1 BA OP CODE-PH1	.	12 05180	0 007993009103	
A 694		MLCS	PRCTABE2, LBUWTE3	MOVE OUTPUT I DRIVE NUMBER-PHI		12 05192	2 007994009033	
A695		60	PSTRBF	GO STORE DR NO. BA OP. CHAL CHAR		7 05204	4 J05812	
9694		X	PEC. PEDEND	GO IF SINGLE PHASE EDIT		12 05211	1 V05391048591	
A 697		MLCS	PCNSTR CSDC00611	PREVENT UNLOAD END OF PHASE 2		12 05223	3 004920079413	
A G 9 8		986	PECOTT, POUTRS62, 6	GO IF OUTPUT 2 IS DIFF CHNL		12 05235	5 W0529006650E	
A 699		BCE	PEDYEC, POUTRS&2,	GO IF NC OUTPUT 2 DRIVE	_	12 05247	7 80501906650	
Ŧ		MLNS	PRCTABE3, PRDTABE2	OUTPUT 2 TO OUTPUT 1 POSITION		12 05259	9 007995079941	
AH 1		MLCS	POUTRS62, PMESMZ61	OUTPUT 2 DRIVE NUMBER		12 05271	1 006650083433	
AH 2		8	PECOTA			7 05283	3 J05341	
AH 3	PEDOTT	886	PEDYEC, POUTRS&3, &	GO IF DRIVE 2 INVALID		12 05290	0 M05019066516	
A 14		BCE	PEDYEC, POUTRS63,			12 05302	2 80501906651	
T		MLCS	PROTABES, PROTABE2	OUTPUT 2 TO OUTPUT 1 POSITION		12 05314	4 D01997079943	
A T		MLCS		FOR PHASE 2 GUTPUT		1 05326	0 9	
P IN		MLCS	•			1 05327	7 D	
₩ 14		MLCS	POUTRS63, PMESMZ61	DUTPUT 2 DRIVE NUMBER		12 05328	8 006651083433	
PH 9		MLCS		E DUT 2 CHANNEL CHAR		1 05340	0 0	
AHIO	PECOTA	MLCS	PRCTAB62, EINCOG62	SET PH3 INPUT-DUT 2PH2 OUTPUT		12 05341	1 007994090513	
AHII		MLCS				1 05353	0	
AH12		MLCS				1 05354		
AHES		MLCS	PRCTABEZ, ESPASOE3	DRIVE NUMBER		12 05355		
AFIG		MLCS	PROTABE1, ESPASOE10	8A 0P				
AH15		MLCS	PRCTAB, ESPASOEL	RACTER		12 05379		
AH16	PED	MLCA	a a, PROTABES	LIMIT PHASE 2 DUTPUT TO 1 DRIVE		15 05391	11 D0669207997T	

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	TC50 PGLIN	LABEL	00240	OPERAND	UPDATE SE	SECTION	PRE-PHASE			٠	7.7	ADDRS	PAGE 65 ADORS INSTRUCTION	
· .	AH 18	****			*	***		•		•	••			
	AH 19	•MCDIFY	PHASE 2	*MCDIFY PHASE 2 FOR PHASE 3	EDIT	OPERATION						2		
	AH20	PECMCO	MACKG	ENCCPH, CTBCUZ	2008	REPLACI	REPLACE PHASE 2	END	ROUT INE		12	05403	D0856007996L	
	A+21		3	ENCPHA61							•	05415	871000	
	AH22		SAR	630000350							7	05421	G07935A	
	AH23		6 0	PECRWD		REWIND	REWIND CUTPUT 1				7	05428	J05524	
	AF-24		 	PECNOP, PEDEND	DEND	09	GO IF SINGLE PHASE	PHASE EI	EDIT	٠	12	05435	V05461048591	
·	A+25		, 60	POMPPH		GO W.	WRITE PHASES	. 263	ON OUTPUT	UT 1	~	05447	J04264	
	AH26		83	BPLASE		CO S1	START MULTI	I EDIT			1	05454	300476	
<u>-</u>	AHZT	PEDNOP	77	ESPASOES, ESPASO	ESPASO	NOP PH3	PH3 SPACE	OVER	LOAD		11	05461	20885808853	
	AH28		Z.A.	ESPASOES, ESPASOE10	ESPASOE10			•			=	05472	60885808863	
	AH29		6 0	PONDPH		GO W	GO WRITE PHASES	263	ON OUTPUT	UT 1	_	05483	104264	
	AH30		3	PECROSE1							•	02430	a05518	
	AH31		SAR	BRTBGM622							~	05496	G00030A	
	AH32		60	PECRWD		GO REWI	REWIND DUTPUT	1 1	•		7	05503	. 105524	
	AF33		63	BRTBGM		GO REAC	READ PHASES	263 IN I	LCWER		1	05510	900006	
	AH34	PECRES	80	ENCPHA		GO END	END PHASE 2				7	05517	10001	
	AH35	*****	:	***************			*********		******	•	, -			
	A F 3 6	*CLOSED	SUBROUTINE TO		REWIND CUTPUT									
:	AF37	PECRNO	SHR	• 619		REWIND	REWIND COUTPUT 1				~	05524	6055488	
	AH38	PECMCE	* RWD	11							2	05531	UZUIR	
	AH39		* BA1	11							~	05536	ROSS31M	
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	AH41		I			TERMINATION	V110N	1	1			05550		
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DCW CPHCD0622 2 5 05952 DCW EDUMP610 3 5 05957 DCW EDUMP610 3 5 05962 DCW PECYEL610 3 5 05967 DCW ERSTRT 3 5 05972 DCW ENCCPH65 P3 5 05987 DCW ENCCP161C P3 5 05987		J	7		
DCW PBCREE10 P S 05957 DCW EDUMPE10 3 5 05962 DCW PECYELE10 3 5 05972 DCW ERSTRT 3 5 05977 DCW ENCCPHE5 P3 5 05987 DCW ENCCPIEIC P3 5 05987		٠	2	S	
DCW EDUMP&10 3 5 05962 DCW PECYEL&10 3 5 05972 DCW ERSTRT 3 5 05977 DCW ENCCPH&5 P3 5 05987 DCW ENCCPICIC P3 5 05987		•	•	\$	
DCW PECYELE10 3 5 05972 DCW ERSTRT 3 5 05977 DCW ENCCPH65 P3 5 05987 DCW ENCCP161C P3 5 05987		ш	€.		
CCW PECYEM65 5 05972 DCW ERSTRT 3 5 05977 CCW ENCCPH65 P3 5 05982 DCW ENCCP1610 P3 5 05987		۵		S	
DCW ERSTRT 3 5 05977 DCW ENCCPIGIO P3 5 05982	W W W	· Q .		I	
DCW ENCCPH65 P3 5 05982 0CW ENCCP1610 P3 5 05987	# # # # # # # # # # # # # # # # # # #	w		I	
DCW ENCCP1610 P3 5 05987	W ACA	•	R	S	
		w	P3	•	

1050			ā	UPDATE SECTION		PRE-PHASE					PAGE 67	
PGL IN	LABEL	OPCOD	OPERAND						13	ADDRS	INSTRUCTION	
A 200		A C	PECMOFES		٠ م				1 0	05992	05536	
E 6 1		; , , ,	PMANYA		GO STORE	CHANNEL CHARACTER	HARACTER		~	05993	101897	
AHBA	•	MOD	LBUMTEL		-				r	06004	10600	
AH95		MOD	PWIPHCEL		a .				\$	60090	16250	
AH96		MOG	PPFASEE1		2				S.	06014	96910	
AH97		DCW	BENCPH&1						5	61090	69600	
AF98		NCM OCM	BRHBBFE1		-				2	06024	08600	
AF59		DCW	BRIBGME1						, so	06029	60000	
A I	•	MOD.	CP+CDOE1		7				ĸ	06034	08219	
A1 1		DCW	CP+CD0613		7				w '	66030	08231	
A1 2		M D C	PBCREE1		a .				ĸ	06044	03831	
A1 3		M D C	EDUMP & 1		•				'n	65090	55560	
4 IV	· · · · · · · · · · · · · · · · · · ·	MOD	PECYEL61						S.	06054	89760	
A 1 S		X ∪ Ω	PECYEM61		3			•	ď	65090	16760	
9 I V		ECW	ERSTRT 62						£	99090	65060	
A1 7		MOO	ENCCPH61						ſ	69090	08561	
8 I V		DCW	ENCCPICI						ŗ	91090	08573	
6 I 4		MOO	PECMOEE1		a				\$	06079	05532	
A110	PSTRBD	6 0	00000		RETURN			·	~	08090	000000	
A111	*****	*****	*********			******	********	•				
A112	. STANCARD	TYPE	ROUTINE 2.									
A 113	TYP1	SBR	TYP268	STORE	MESSAGE	ADDRESS			1	06087	G061028	
A114	TYP2	NC P	0	TYPE	E MESSAGE				.01	06094	MX T000000W	
A115		SBR	TYP3ES	SET	SET RETURN ADDRESS	RESS			~	90190	6061308	
A116		8681	23	BRAP	BRANCH BUSY				2	11190	R060942	
A117		8 4 1	13.	BRAN	BRANCH ANY				~	06118	R06125M	
A118	TYP3	60	0	RET	RETURN TO PROGRAM	RAM			~	06125	000000	

LABEL

PGL IN

*PRE-PHASE	CLOSEC	*PRE-PHASE CLOSED SUPROUTINE TO READ	CARD IMAGES.			
A 1 0 0 0		PCREEKES	SET EXITS	~	06132	G063828
		Atayasasa		~	06139	6064008
	X D C		AND 7 TO EXIT	11	06146	A0613906382
	∢ .		THE VIEW OF THE VI	12 (06157	106637066223
	י ני ני	PCCS-19FCF10F) <u> </u>	69190	6061888
	¥		FRECR-INVALID CHANNEL	~	92190	106384/
- 1 3 4 4	200	ACCEAN.	MOVE CHANNEL SELECT CHARACTER	12 (06183	000000063363
PCROBB	7 LC 3	2		~	06195	G06207A
	SAR		SET BA OP CODE	12	06202	000000063453
	FLCS			12	06214	D0659406338T
	E .	PURUNDOPUNCAZAGO	MOVE 1 TO 10 FRRDR RTN BCE	12	06226	006683004193
	N 1 0 0	ALAPERALICAE		12	06238	806335066380
	ב ה ה	TCKCAACCCAAC	CET FOR 7223 CARD READER	12	06250	006694063381
	F (C)		MINE A TO TO ERROR RIN BCE	12	06262	00628500419
	N L C S	#412,05AA		12	06274	806335066382
	9 C	PCKUAA,PCC3,2	CONTRACTOR TAPE SELECTION	12	06286	98699048690W
	98 13 13 13 13 13 13 13 13 13 13 13 13 13	PCKEKAPPCCS		12	06298	W0631706638M
	966	* 56 , PCCS • M			06310	J06384
	ထ		GOLINAALIO TATE SELECCIONIS	12	06317	006638063383
	MLCS	PCCS, PCRDAA63			06329	006695
	MLCS	9.8 s	SET FOR TAPE	2	77.00	\$1100011
PCROAA	2	\$11,CIMAGE.S		3 7	77700	2000
PCROCC	BA 1	BERROR			64500	10000H
	3K	CIMAGE		0	20000	***************************************
	MLCS	PCRDCC, *61		71	06.338	000343003
	A 1	PER	GO-NOTHING TO READ	~	06370	R064028
			NORMALEXIT	7	06377	00000
TCKUEY TCKUEY	D (A DOOD O	SET UNFOUAL INDICATOR FOR ERROR	11	06384	C0638406377
PCREKX	، د	70000	THE ACT OF COOR	~	06395	000000
	20 (cer contain INDICATOR FOR EOF	11	06402	C0640206402
PEOFER	U	PEGFER, PEUFER		_	06413	106395
						1111

	UPDATE	SECTION PRE-PHASE	'n	3-31-64	PAGE 69
			1 -		
	CPERAND		5	ADDRS	INSTRUCTION
		CARDS BETHEEN LOWER MEMORY AND			
*THE CCNTRCL CARD AL	AREA OF TAPE CO	CONTROL.			
	LOSYS1.PCShSY	SET SWITCHES	12	06420	000045064814
	LOCENI.PCSMON		12	06432	000078054944
	LOCHN2, PCSNTC		12	77790	000135065074
	LOCHN3, PCSNTR		21	00420	*02590261000
	LOCEN4.PCShFR		17	05468	000249065334
			-	06480	L (
	TCSYS1,LCSYS1	REPLACED BY NEW CARCS	12	06481	C0555100045•
				06493	Z (
_	TCCFN1,LCCFN1		12	06494	00558400078
				99590	2 (
J	TCCHN2, LCCFN2		71	10690	00564100135
			(06519	2
_	TCCFN3.LCCFN3		7	02490	00784800196
			7 (26532	N 006755003498
_	TCCHN4.LCCFN4		21	55.00	00006505550
_	LOSYS1, TCSYS1		71	04667	000000000000000000000000000000000000000
		TAPE CONTROL.	•	04558	
				06.50	a c
			• =	06560	. 0
-	P1101 FV	GO UPDATE LEVEL	2	06561	J07296
_					
	PRE-PHASE CONSTANTS	AND STCRAGE.			•
_	L05Y5161		S.	06572	9700
	LOCFN181		5	06577	0000
	LOCHNZEI		ς.	06582	00136
	LOCHN361		ς.	06587	00193
	LOCHN4E1		.	06592	00250
. •	@12@	FCR CARD READ X CONTROL FIELD	~	06594	
_	PCL TRS&1		in i	06599	
_	PC1561		in i	06604	
_	PC1561			60000	00040

		n														2																					
PAGE 70	INSTRUCTION						07694																														
	CT ADDRS	01990 1	3 06613	3 06616	3 06619	3 06622	5 06627	5 06628	1 06633	2 06635	2 06638	5 06644	2 06645		1 06648	1 06649	1 06650	1 06651	1 06652	1 06653	75990 1	1 06655	1 06656	1 06657	1 06658	1 06659	1 06660	10000 1	700001	1 06663	*9990 T	1 06665	1 05565	1 06661	1 06669	1 06670	. , , , , , , , , , , , , , , , , , , ,
LPCATE SECTION PRE-PHASE		TABLE OF CHANNELS					FIRST LOCATION OF PHASE 2 -1	CORE SIZE TO THE SIZE OF THE S		A CCRE SIZE TO THE STATE OF THE	CONTROL CARD SOURCE																										
2	OPERAND	(0	6) 72 E	QX F F B	8.3¥G8	6) 11 ° T 6)	CP+BEG-1	\$65650B	â C â • G	60	9) • ¢	22202	(4 (5	PCC S-1	(#	(0	(8	(8)	10	(U (G	(6	(4	(3	(8	(d	(0			(O		(0	10	(d (d	(e (d	. •	(d) (e e
	OPCOD	300	CCM	M CC M	XO2	X C C	BUE	* ∪0	ນ	30 0	MO0	3 00	R)	ECU	300	# 2 2	M C M	CCW	H00	300	M DO	A D D	X 00	KOD	₩ DC	MOD	MOD .	₹	3 0	A 22	M D D	HOU	™ DU	M CCM	300	300	3 2 2
	LABEL					PCFTEL	PSTPNV	PCRS2	PSZ	PCRS12	S D D d	PSY	PETS	PC I S	PCUTRS																						
C. Y	PELIN	A 188	A 189	A 150	A 15.1	A 152	A153	A 154	A 155	951 V	721A	851 V	551 W	۲۵.	1 F W	A J 2	A J 3	A . 4	A.J. 5	A . 6	AJ 7.	A J 8	5 T W	A J10	4.111	AJ12	AJ13	AJ14	AJ15	AJ16	AJ17	AJ18	A119	A 120	A J 2 1	A 3 2 2	A 323

			LAGOU	C SECTION	PRE-PHASE) PAGE 7	(12	
PGL IN	LABEL	OPCOD	OPERAND			in the second	ن	CT ADDRS		ິລ	NOIL	
A 326		MOO.	(#					1 06671	111		•	
A 327		MO0						1 06672	572			
A 328	PLE	M O O	(a					1 06674	374			
AJ29		*******		********	*********	*********						
A J30	*TAPE CO	INTROL PRE	CONTROL PRE-PHASE LITERAL	CONSTANTS								
A J31		LTORG						06675	:75			
AJ31			6888					2 06676	91'			
AJ31			(G)					2 06678	178			
A 331		•	(8) N. V.					2 06680	80			
AJ31			(8)				- T.	2 06682	82		. •	
A J 3 1			a 18					1 06683	. 83			
A J31			PDTS					5 06688		06645		
A J31			(e)					1 06689	89			
AJ31			(@					3 06692	. 26			
A J31			8708					2 06694	76	,		
AJ31			(a (a					1 06695	56			•
A J32	*****	************	**********	*****	************	*********						
AJ33	*FIRST A	ACDRESS OF	FIRST BLCCK TO	96	RELOCATED INCLUDING PHASE	G PHASE ONE.						
A134	CNEGC	ORG	10000					10000	101			
A 135	CNELCC	CCORG					96990	10000	101			
AJ36		6 0	20EINDEXB	00 09	ON RESET/START		96990	10000 1		100#20		
A J37	PRTBGM	CCORG	•				06703	80000	80		:	
A J 3 8	BRTBGM .	RTBGW	11, CAREA	READ !	READ PHASE TWO INTO	TO CORE	06703 10	10 00008		LZB100476\$	\$9.	
A 139	•	1 8A1	BERROR	00 ON	GO ON ANY INDICATOR	08	06713	81000 2		00306M		
07FV		€	CPFTPI	GO STA	START PHASE 2		06720	7 00025		666000		
A 34 1	EXSEGN	DCW	(G)	SEQUENCE	NCE NUMBER OF	F PRESENT PROGRO6729	JGR06729	3 00034	34			
A 142	PECBLN	CCORG					06730	00035	35			
A 143		¥22	(*	INDEX	REG X3		06734	5 00039	39			
4764		MOD	(B)	INDEX	REG X4		06739	5 00044	44			
A 145	****	*******	中华市市 医多种		*********	********				1+		
A 346	#TEMPORARY		STORAGE AREAS FOR CON	NFIGURATION CONTROL	CONTROL CARDS.	os.						
F 3 C 4 C	TCSAS1	MOO	(TO		(e		06740 33	3 00045	45			
A.48	LOCENI	M CO	(0			Œ	06773 40		.78	 		
A149		ວ	•	(3			06829 17	7 00134	34			
A 350	LOCHNZ	CCM	æ			œ	06830 40		35	en Pari		
AJ51		ង	(10)	(0 -			06886 17	16100 2	16		-	
AJ52	LOCFN3	M OC	•			(9	06887 40		35			
A.53		20	•	(1			06943 17	7 00248	•			

R00+208 R004074 R00+033

00370

07065

00377 00384 00391 00398

07070

REDO 10 OP IF BUSY OR NOT RDY

36 INDEXB, 3

BERREX

AJ76

1,175

1,178

171V

20EINDEXB

206 INDEXB

BEF1

BBEFER

4774

BERHLT

BER1 BEX1 CONTINUE PROGRAM IF WLR

TERMINATE HALT

GO ERROR HALT IF DATA CHK

CONTINUE PROGRAM IF EDF

100#20

300700

00400

07095

EXIT FOR EXECUTE CARDS

ONELOCE399

CDORG

BREADC

ONE GO 8399

ORG

00400

07095

1050			UPDATE SECTION	CTION PRE-PHASE			PAGE 73
PGLIN	LABEL	OPCOD	OPERAND		15	ADDRS	INSTRUCTION
A J B 3	BERHLT	I		ERROR HALT	07102	10400	
A J84 A J85	*THIS HALT HAS DECURE	***** HAS OC	**************************************	esseressessessessessessessessessessesses			
A 186	*OPERATION.THE IC UN	THE IC	UNIT IS STILL SELECTED.	CTED.			
A J87	*1. IF A TAPE DRIVE IS	E DRIV	E IS SELECTED-				
A 188	• -10	-TO ATTEMPT TO		CORRECT ERROR BY REPEATING THE REAC OR			
A 389	# NR	WRITE OPERATI	RATION, DEPRESS START.	<u>.</u>			
06€€	4 H	-A RESET-STAR	_	ACTION WILL CAUSE THE PROGRAM TO ATTEMPT			
15CA	10	CONTINUE	•	ITHOUT CORRECTING THE BAD DATACAUTION-			
A 192	*2.1F CARD	READER IS	IS SELECTEC-		,		
. A.193	#11-	BAD CA	BAD CARC-CORRECT, MAKE READER READY, START.	DER READY.START.			
496 A	u 1	-IF CARD READE	EADER ERROR-REPLACE	R ERROR-REPLACE CARD IN READER, MAKE READER			
A 395	. REAL	READY, START-	RT-10 TRY IC READ CARD AGAIN	ARD AGAIN			
A 196	-10	-TO ATTEMPT TO		USE BAC CATA-RESET, START CAUTION-			
A 397	*******	*******	*	· · · · · · · · · · · · · · · · · · ·			
₽ 19 B		BCE	36INDEXB, 56INDEXB, 1	1 GO REREAD IF CARD READER	07103 12	00408	800+0300+051
A 199	BRPBKS	MLCS	66 INDEXB, BERBSP63	SET DRIVE FOR BKSP-SKIP OP	07115 12	00450	000406004373
×		PLCS		SET TAPE CHAR FOR BKSP-SKIP	07127 1	00432	0
- ×		MLCS		SET CHNL CHAR FCR BKSP-SKIP	07128 1	00433	٥
A X 4	BERBSP	ВЅР	11	BACKSPACE SKIP	07129 5	00434	UXU18
AK 3	BERBAO	BA1	BERBSP	RESET INTERLOCK	07134 7	00439	R00434M
* ×		S	BRIBGM.BERBSPE4	SUB -3 FROM D MCD	07141 11	94400	80000800438
A A	BWENTY	BCE	BRPBKS, BERBSP&4, E		07152 12	00457	B0042000438E
P X	BERBXT	€	36 INDEXB	GO REREAD/REWRITE RECORD	07164 7	00469	100+03

PGL IN	LABEL OPCOD OPERAND	5	ADDRS	INSTRUCTION
œ				
6 X	*PHASE ONE STARTS HERE.PHASE ONE IS RESPONSIBLE FOR I.READING DUMP			
AK10	*RECCRDS FROM A PREVIOUSLY RECORDED DIAGNOSTIC SYSTEM TAPE. 2.READ-			
AK11	*ING DELETE , PATCH , AND NEW CHANGE CARD IMAGES FROM A CARD READER		٠.	
AK12	*OR TAPE CRIVE. 3.DELETING PROGRAMS , READING PATCH CARD IMAGES .			
AK13	*AND REACING NEW PROGRAM CARD IMAGES. 4.UPDATING CONFIGURATION			
AK14	*CONTROL CARDS IN THE TAPE CENTROL PROGRAM. 5.COMBINING ALL INPUTS			
AK15	*AND PLACING THEM ON THE BUFFER TAPE IN LONG MEMORY DUMP FORM OR	v *		
AK16	*ON THE GUTPUT TAPES IN SHORT MEMORY DUMP FROM IF THERE ARE NO CARD			
AK17	*IMAGE INPUTS.			
AK18	· · · · · · · · · · · · · · · · · · ·			
AK19	*REAC SHORT DUMP FROM DIAGNOSTIC SYSTEM TAPE IF AVAILABLE.			
AK20	SWITCH-BRANCH IF NO MORE INPUT	07171 1 00476	00476	z
AK21	B BSTMDN DUMP RECORDS AVAILABLE.	07172 7	00477	700054
AK22	PRTBGW CDORG .	07179	00484	
AK23	* RIBGW 10.FIELD READ SHORT DUMP FROM MASTER	01 62120		L#B001000\$
AK24	. BAI BERROR GO ON ANY INDICATOR	07189 7	00494	
AK25	A REFL BATMON GO SET MASRER DONE IF EOF	7 96170	00201	R009248

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200	- U G 4		UPDATE	SECTION PHASE CNE	60	3-31-64	29 PAGE 75
			GOFERAND			CT ADDRS	S INSTRUCTION
AK26 AK27							
A K 3 G				N OF CARD PAGE INPUTS IF AVAILABLE.			
D (4) - 30 B		BBK SPSCI, BCMPSWCI	CLEAR FOR BACKSPACE & DUMPING	07203	11 00508	8 = = 0068800881
62 M d	BMCCCN	NCPER		SHITCH-BRANCH IF NO MCRE CARD	07214	1 00519	
AK30		&	BCFKTC	IMAGE INPUTS.	07215	7 00520	
AK31		PLNB	PRCGSQ.BXSEQN	STORE PROGRAM SECUENCE NUMBER		12 00622	į,
A K 3 2		U	CIMAGE 64.8XSEQN	CCMP CHANGE SEG TO PROG. SEG.		· .	
AK33	BCPLCW	8	BCFKIC	GC 1F SUBJ. PRCG NOT REACHED			
DK34		8	BCKCRD	IF PAST SUBJ.	07253	00000 6	
AK35	BECUAL	ZS.	BBK SPSE1	2	26210		
AK36		BCE	BBKSPS.CIMAGES.	TOTAL OF CO.			
AK37	BCKCRD	BCE	A CARDON AND MARK	באור בי			
A K 3.8		g G		SU I'N NEW TYPE CHANGE CARD	07277	12 00582	B0068700602N
A K 3 9		טמט	17 L C C C C C C C C C C C C C C C C C C		01289	7 00594	189006
AK40	•					0000	
A K & 3	No laita		2	ATE LEVEL OF NEW TAPE			
	7 CT CT C				07296	10900	
25.0	CIMAGE	E	PWMGMR-27.PUPOLDE3	CLB LEVEL TO TYPEOUT	07296 1	12 00601	007666073461
AK43		B MLCA	BENCPHES, PAMEMR-27	NEW LEVEL OLD TCSO TO NEW TCSO	07308	12 00613	
D X 4 4		B MLCB	Phrgme-27.Pupnemes	NEW LEVEL TO TYPEOU	07320		
AK45		8) 8)					
DK46		B CC¥	a010-a		07362	70000	
DK47	PUPOLE	e ccorg			03373	1 2000	
DK48		B CCW	9.0		03377	28400	
0 K 4 9		ඩ	TYP1		01340	15900	
AKEO		e CCW	PNE 1-9		01010	5 5 9 DO 1	106087
AKSI	PUPNEW	B CCORG			86670	£ 9000 4	
AKS2		P CC	් අ		60010	49900	
AK SU		&			29670	4 00667	
2 × 5 × 5		3	(C)		0/364	69900 2	.101993
0 × 0	BCKBCE	ב ט ט ג	9 (FILL DUT BO CHAR. READ IN AREA	07375	9 00 8 80	•
AK56				SET TO SKIP DUMP OF RECORD	07376	3 00681	.00881
Z Z	* BACKSPACE	ACF WASTED		医医检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检查检			
A 80 80 80	PRKSPS		O SI EDITED LI DIEL	CLEAKED			
) K C	2	L 2 2			07382	1 00687	Z
, , , , , , , , , , , , , , , , , , ,	2000	3 3 3 4	HREADC	MASTER TAPE	07383	88900	300708
AK F. J	7 10 X 20 C				07390	00695	
•	E S S S S S S S S S S S S S S S S S S S	ESP	807	BACKSPACE MASTER TADE			
C > 2 <					07390 5	\$6900	0%108

Value CPCDD OPERAND Value SECTION PRASE CNE					100			o
PREATC	1650			UPDATE SEC	TION PHASE ONE			PAGE 76
REALC CARC INTC CARD INAGE READ AREA. 07402 00700	PGL IN	LABEL	CPCOD	OPERAND		5	ADDRS	INSTRUCTION
REALC CARC IMAGE NEAD AREA. 07402 07707	DK64	****	****					
PREACC CCORG CCORG	AK65		RC IMAGE	ت	DAREA.			
### PREACC CCORG ** CLU	AKEE		NCP				00100	2
## BEFILE ### BY THINGHAGE.\$ ## BEFILE ### BY THINGHAGE.\$ ## BEFILE ### BY THINGHAGE.\$ ## CTPAGE ## CTPAGE	AKE 7	FREACC	CCORG			07403	90700	
EBECKE ** BEFI BETROR GC ON ANY INDICATOR 07413 7 00725 EUEFIC ** BEFI BSIMUD GO SET PCD DONE SWITCH 07420 7 00725 BGE EDPSW.CIPAGE*X GC IF CHANGE CARD 07431 2 00738 BGE EDPPSW.CIPAGE*X GC IF CHANGE CARD 07457 12 00750 BCKEXC BGE CIPAGE*CILIPAGE*B GC STCRE CARD IF PRCGRAP CARD 07457 12 00750 BCRCIR BGE CIPAGE*CILIPAGE*B GC STCRE CARD IF PRCGRAP CARD 07457 12 00750 BCRCIR BGE CIPAGE*CILIPAGE*B GC STCRE CARD IF PRCGRAP CARD 07457 12 00750 BCRCIR BGE CIPAGE*CILIPAGE*B GC STCRE CARD IF SAGA CACC. 07467 10 00775 BSTRC PLAN CIPAGE*CILIPAGE*B GC READ NEXT CARD 07493 7 00788 *STRE CARD IR GC READ NEXT CARD 07493 7 00789 *STRC PLAN CIPAGE*C*GRAP <t< td=""><td>AKEB</td><td>BREACC</td><td>21</td><td>_</td><td></td><td></td><td>90100</td><td>1211006011</td></t<>	AKEB	BREACC	21	_			90100	1211006011
## CIPAGE CIPAGE BEFINE BRANCH LENGTH 07427 6 00732	AKES	BBACRU .	B A 1	BERROR	GO ON ANY INDICATOR	07413 7	00718	R00306M
CIPAGE BEFNSW.CIPAGE,X GC F CHANGE CARD 07433 12 00738	0K70	enerco.	BEF1	BSTMCC		07420 7	00725	ROC8748
BCKEXC BCE BCPPSH,CIP4GES GC STCRE CARD F PRCGRAP CARD O7445 12 O7550	AK71		.,	CIPAGE	DEFINE BRANCH LENGTH		00732	.0000
ECKECL BESTRED.CIPP.GESS GG STERE CARD IF PRECRAM CANDEL O7455 12 00762 BCKECLR SW 20K SYS-SIEP AAM/BAR-BGE IF 10K SYS.20K C.C. 07469 1 00774 BCE CIPAGESI.CIPAGE.E GG EXECUTE EXECUTE CARD 07471 12 00775 BCE CIPAGESI.CIPAGE.E GG READ NEXT CARD 07471 12 00778 STCRE CARD IMAGE IN 17S PROPER LOCATION. 07483 7 00788 STRCD PLNA CIPAGES4.BCRCHV&10 STORE STARTING ADDRESS 07493 7 00788 STRCD PLNA CIPAGES9.CIPAGES4 CALCULATE HI CRD ACR EI 07502 11 00807 ZA CIPAGES9.INDEXB LENGIH CF FIELC TO IX REG 07513 11 00818 C CIPAGES9.INDEXB SUBT I FROW INDEX 07524 1 00830 BCRDAG.INDEXB SUBT I FROW INDEX 07525 7 00830 BCRCBAG BSLBCN RELOCATED-GC READ NEXT CARD 07525 7 00840 BCRCBAG BSLBCN RELOCATED-GC READ NEXT CARD 07525 7 00860 BCRCBAG RELOCATED-GC READ NEXT CARD	DK72		BCE		GC IF CHANGE CARD		00738	80088000801
ECKEXC BCE BREADC, CIMAGE 671.* GD IF BRANCH CONTRCL 07457 12 00764 BCE INTERMENT CAND BCE IF 10K SYS.20K C.C. 07469 1 00775 BCE CIMAGE CINCIPAGE.E GG READ NEXT CARD 07471 12 00775 BCE CIMAGE CINCIPAGE.E GG READ NEXT CARD 07483 7 00786 ************************************	AKTS		Z C		GO STORE CARD IF PROGRAM CARD		00750	V00795006061
### BCE IF 10K SYS.20K C.C. 07469 1 00775 #################################	AKNA	PCKBXC	BCE	BREADC, CIMAGE 671.	GO IF BRANCH CONTRCL		00762	80070800672
######################################	AK75	BCRCLR	XS.	2CK SYS-STEP AA	WEAR-BCE IF BOK SYS, 20K C.C.	07469 1	92100	•
######################################	AK76		BCE		BCE 1F 10K/20K SYS.40K C.C	.07470	00175	80
######################################	AK77		BCE		GO EXECUTE EXECUTE CARD		91100	B0C60200601E
*SICRE CARD IMAGE IN ITS PROPER LOCATION. ESTRCO A CIPAGE 69, CIMAGE 64, BCRCWV&10 STORE STARTING ADDRESS A CIPAGE 69, CIMAGE 64, CALCULATE HI CRD ACR &1 07502 11 00807 ZA CIPAGE 69, INDEXB LENGTH OF FIELD TO IX REG 07513 11 00818 C C C C C C C C C C C C C C C C C C C	AK78		&	BREACC	GC READ NEXT CARD		00788	100708
## STORE CARD IMAGE IN ITS PROPER LOCATION. ## CIPAGE 64. BCRCMV& 10 STORE STARTING ADDRESS ## CIPAGE 69. CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ## CIPAGE 69. CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ## CIPAGE 69. CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ## CIPAGE 69. CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ## CIPAGE 69. CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ## BREADC ## BREADC ## BREADC ## BSCHON	0K79	****			· · · · · · · · · · · · · · · · · · ·			
### ### ##############################	AKEC		ARD IMAGE					
A CIMAGE 69, CIMAGE 64 CALCULATE HI CRD ACR & 1 00807 ZA CIMAGE 69, INDEXB LENGTH OF FIELD TO TX REG 07513 11 00818 C IS PERCRY TOU SMALL 07524 1 00829 BL BREADC GO IF YES 07525 7 00830 BCRDFV MLCMS CIMAGE SINDEXB STORE CHARACTER 07532 11 00837 BCRDFV MLCMS CIMAGE SICKINDEXB STORE CHARACTER 07543 12 00848 BCRCAG B BSLBON MCVE NEXT CHARACTER 07555 7 00860 BCRCAG B SCRCAG READ NEXT CARD 07555 7 00860 BCRCAG B SCRCAG B O7552 7 00867	AKEI	ESTRCO	PLNA		STORE STARTING ADDRESS		00195	00060500858/
C CIPAGE 69, INDEXB LENGTH CF FIELC TO IX REG 07513 11 00818 C IS PERCRY TOU SMALL 07524 1 00829 ESUBCN A BCRDAG, INDEXB SUBT 1 FROM INDEX 07532 11 00837 ECRDPV PLCMS CIPAGE 81C SINDEXB STORE CHARACTER 07543 12 00848 ECRCAG B BSLBCN MCVE NEXT CHARACTER 07555 7 00860 ECRCAG B BSLBCN MCVE NEXT CHARACTER 07552 7 00867 ***SET PCC CCNE SMITCH************************************	AK 82		4		CALCULATE HI CRD ACR 61		00801	A0061000605
BREADC C C C C C C C C C	A K 8 3		42	CIMAGE 69, INDEXB	LENGTH OF FIELD TO IX REG		00818	60061000044
ESUBEN GD IF YES 07525 7 00830 ESUBEN A BCRDAG,INDEXB SUBT 1 FROM INDEX 07532 11 00837 BCRDPY MLCMS CIMAGERICGINCEXB, OLINDEXB STORE CHARACTER 07543 12 00848 BCRCAG B BSLBON MCVE NEXT CHARACTER 07555 7 00860 ************************************	AKE4		U		IS MEMCRY TOO SMALL	07524 1	00829	ပ
ESUBCN A BCRDAG.INDEXB SUBT 1 FROM INDEX GCRDPV MLCMS CIMAGERICEINCEXB.ORINDEXB STORE CHARACTER 07543 12 00848 BZ BREADC RELOCATED—GC READ NEXT CARD 07555 7 00860 BCRCAG B BSLBCN MCVE NEXT CHARACTER 07562 7 00867 ***SET PC CCNE SMITCH	AKES		8	BREACC	GO IF YES	07525 7	00830	J00708T
BCRDPV MLCMS CIPAGERICGINDEXB, OCINDEXB STORE CHARACTER 07543 12 00848 BZ BREADC RELOCATED—GC READ NEXT CARD 07555 7 00860 BCRCAG B BSLBON MCVE NEXT CHARACTER 07562 7 00867 ***********************************	AKE6	ESUBCN	<	BCRDAG. INDEXB	SUBT 1 FROM INDEX		00837	A0C86700044
BCRCAG B BSLBCN MCVE NEXT CHARACTER 07555 7 00860 and between the control of the	AKE7	BCROFV	PLCHS	CIMAGERICEINDEXB,00	CINDEXB STORE CHARACTER		00848	DOCW1100#007
BECREAG B BSLBCN MOVE NEXT CHARACTER 07562 7 00867	AKEB		7.8	BREACC	RELOCATED-GG READ NEXT CARD	07555 7	00860	J00708V
R B B B B B B B B B B B B B B B B B B B	AKE9	ECRC#G	•	BSCBCN	MOVE NEXT CHARACTER	07562 7	00867	100837
*SET MCC CCNE	05×0	****	********	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
	15×4	*SET MCC		11СН				

80197901247V

00888

GC STR CTL COS IN TAPE CONTROL

PENTRY, PROGSC.V

BPFASE

NCP

BENDSM

AKS 5 AKS 6 AKS 7 11,FIELD

BCE WTBEW

> AKSB AKS9

ECHKTC LBUWT BERRCR BPFASE

841

GO IF DUMP NOT CESTRED

300476

00880

07575

00874 ,00520

9 69510

**COMP THIS PROGRAM ON THE BUFFER TAPE IF PROGRAM IS NOT DELETED.

BMCCCN61

BSTMCC

AK92 AK93 AK94 L78101000X R00306M

00600

01600

01605

21910

WRITE BUFFER DUMP GO ON ANY INDICATOR GO RESTART PHASE ONE

								pater viscos pareción de la pareción					entering)
1650						UPDATE		SECTION P	PHASE ONE						PAGE 77	
PGLIN		LABEL		00000	OPERAND								5	ADDRS	INSTRUCTION	
AK91		2. 中央市场中央企业中央市场中央市场中央市场中央市场中央市场中央市场中央市场中央市场中央市场中央市场	*	* * * *	****	******	***	****	****	****	*****	•				
AK92		*PHASE	ONE	RCUTINE-SET	•	MASTER DI	CONE									
AK93		BSTMCN		S	BPHASE 61	.		SET MAS	SET MASTER DONE	SWI 1CH	I	01910	9	00924	*00477	
AK94				Z.	BENDPHE1, BEQUALE1	1.BEQU	ALE1					07625	=======================================	00630	E0096300565	
AK95	`. 			SAR	BMCDDNE6	•		STORE FL	STORE FOR WRITING TAPE	NG TAP	E MARK	07636	~	15600	G00525A	
AK96				SBR	BCMLOWES			STORE TO	D BRANCH ON LOW	ON FO	3	07643	~	00948	6005558	•
AKST				60	BSETUP							07650	1	95600	100508	
AK98		***	*	*****	******	* * * * * *	* * * * * *	*****	*****	* * * * * *	******					
AK99		*PHASE	ONE	RCUTINE TO		END PHASE ONE	ONE				•					
AL		BENDAH		Z I Z				WRITE TA	WRITE TAPE MARK			07657	S	00962	USUIM .	
AL 1				CCW	N CO							07666	w.	12600	(
AL 2			•	8 4 1	BERROR			GO ON AP	GO ON ANY INDICATOR	ATOR		07667	1	22600	R00306M	
AL 3	.**.	ERWBEF	•	RhD	11		1	REWIND BUFFER	3UFFER T	TAPE		07674	S	61600	USUIR	
AL.4		BBABFR		8 A 1	BRWBBF		-	GO ON AN	ON ANY INDICATOR	ATOR	•	07679	1	98600	R00979M	
AL S				63	BRTBGM			GO READ	READ PHASE 2	INTO	CORE	07686	~	16600	300006	
AL 6				MOD	(e 3£ C 8)			TERMINATE	TE BRANCH	·		07693	,	86600		
AL 7				ORG	CNEG06997	16	,	ENSURE NA	86600 NI WH	866				86600	. 8	*.
AL 8		PWWGWR		CCORG	ONELOCE	166						07693		86600		
6 TV		N C N		DCW	(8) 22(C) 32(C)			TERMINATE MCVE	TE MCVE			07693	~	86600		
AL 10		****	*	*******		********	*	*****	*********		**********					*.
AL11		*PHASE	TMO	SECTION	TWO SECTION-PLASE THO 1.READS	THO 1.	READS	LONG DU!	LONG DUMPS FROM	THE BUFFER	UFFER					
AL 12		*TAPE.	2. AC	DS APPL	2.ADDS APPLICABLE CONFIGURATION CONTROL CARDS	CONF 16	URATIO	N CONTR	JL CARDS	TO THE	w					
AL 13		*DIAGNO	STIC	*DIAGNOSTIC PROGRAMS.		3.WRITES	SHORT	DUMPS OF	SHORT DUMPS ON ALL OUTPUT TAPES.	TPUT T	APES.					
AL 14		CPHASE		ORG	BPHASE									92500		
AL15		CPHBEG		CCORG	*							07695		92500		
AL 16		PPHASE		CCORG								07695		92400		
AL 17			**	*****	****	* * * * * *	* * * * * *		***********							
AL 18		*REAC B	UFFE	*REAC BUFFER TAPE	DURING PHASE		2 - RE	READ NEW MASTER	MASTER I	IF PHASE	Б 3.					
4119		CPHASD	ψ.	RTBGW	11, FIELD	۵		READ LOF	READ LONG DUMP FROM BUFFER	FROM B	UFFER	07695	01	92 700	L#8101000\$	
AL 20			•	841	BERROR		•	GO ON ANY	>			01705	~	00486	R00306M	
AL21				BEFI	CCFWTM		·	GO CHANG	CHANGE WIBEW TO WIM	TA OT	I	07712		00493	R007238	
AL22				6	CHVACC			GO MANIP	MANIPULATE CONTROL CARDS	ONTRCL	CARDS	01119	~	00200	J00845	
AL23		CASTER		DCW	(9			CCNSTAN	CCNSTANT ASTERISK	SK		07726		10500		

OPERANC	
OPCOD	٠
LABEL	
NI 19d	

	RELCCATE DIAGNUSTIC	TO UPPER PEMORY	TO MAKE A SHOK! DOMF.		00508	
	ORG	BSETUP		07727	00508	
CSINGL	CCORG		0000	21 75770	00508	D0124900950J
CRELPR	MLN8	TOP THO, CRELPC-3			00520	X66005300039X
	PLCHA	CRELPC. INDEXA	INDEXA TO TOP 1000S OF PRUG		0.00	
	A II C		INDEXX TO TOP 1000S OF MEM		26000	450000000000
	() ()	XXBONLAXOGNE	IS PROGRAM LARGER THAN CORE	07752 11	00533	C0003400034
	د		CO CKID THIS ONE IF YES	07763 7	00544	1004161
	BL	CPFASE		07770	00551	D000000000
CRELPA	MLCWA	OCINDEXA, OCINDEXX	MCVE PAKI UT TRUG OF	7 703 7	0.0563	G00039A
	SAR	INDEXA	SET FOR NEXT MOVE	20110		20003
		× × ×		07789	07500	010000
	7 B C	() () () () () () () () () ()	S CHILDE PROGRAM MCVED	07796 11	00577	C0003900943
	ပ	INCEXA,CZFLUL		07807	00588	100551/
	ā	CRELPA	GO 1F NOT COMPLETE		; ;	
1 1 1		*************	· · · · · · · · · · · · · · · · · · ·			
	TOUS LIABNOST	DOTTE ON ALL DUTPUT				
		1 3 2110			6 00595	
CSDUMP	XS.	7310015		07820	10900 1	G00039A
	SAR	INCEXA	INCENTRALISMON THE MOUTH OF	07827 12	2 00608	000020000
CSCUMA	AR C	OEINDEXA, CSDWRTE1				D000£100668#
	* ARC	18INDEXA, CSDUBA	SET BA OP CODE			
	SAR	INCEXA				
	207	OF INDEXA CSDWRTE3	SET DRIVE NO. IN WRITE OF	0/838 12	٠.,	
רארואו	2			07870	1 900 2	4660009
	SAR			71810	00658	
PCSDW	CCORG	•			10 00658	
CSCWRT	. WIBEN	11,3EINDEXX	DEED PROGRAM GENERAL			8 R00306M
CCFIIPA	BAl	BERROR	GO ON ANY INDICATOR		•	
(30,00		3 - AX HONT 30 - A WILLIAM	IF ZONE-60 SET NEW CHNL IN OP	07894	12 006/2	
	885			07906 1	12 00687	
	8 8E	CORI, OCINDE AN		07918	12 00699	9 80095600658L
CSCOMN	BCE	CIYPEO, CSDWRI,L	60 1776 11.56	07930	00711	54
CSCCEO	CCORG	*			12 00711	1 80075500662U
	1					

	76.00	•	1) }	;)				
	16200		08010		, (c	3 0		•	AL91	. <u>.</u> .
	00790		60080		(W) (F)				A160	
	00789		80080		(6	NO DCM			AL88	
	00788	-4	08007		(4)	A C			AL87	
	18100	-	90080		(6	NO CE		•	A L86	
	00786	_	08005		(e) (8)	MOO			ALBS	
	00785	_	08004		(e) (e)	DCW			AL84	:
	98200	_	08003		(0) (6)	MOO			AL83	
	00783		08005		(6	DCW			AL82	
	00782	~	08001		(d)	M C E			AL81	
	18700		08000		(e) (e)	DCW			ALBO	
	00780	-	01999		(6	CCW			PL 79	
	97100		07998		(đ	N C M			AL78	
	00778	_	16610		(6)	DCW			ALTT	
	77700	-	96610		(d)	M OO	CTBOUX		AL76	
	77700		96620			CCORG	C18002		AL75	:
	97100		07995		(4	MOD			4174 V	
	00775	-	96610		(0)	EC.W			AL73	.* -
	91100		07993		(6)	DCM			AL 72	
	00773	-	07992		: • (**)	DCW	CTBOOLT		AL71	
	00773		07992		•	CCORG	PRDTAB		AL70	
					PUT TAPES.	O 20 OUTPUT	*FCR UP TO		AL69	
			0	DRIVES AND TAPE CHANNELS. THIS TABLE IS SET UP		DUTPUT	*TABLE OF CUTPUT TAPE		ALEB	
	• • •	•		************************	*******	****			AL67	
19200	19100	•	07986		CREEND	Ŧ	CREEND		AL66	
R00755M	09100	~	07979	GO ON ANY	CREWND	841	•		AL65	
UNUIR	00755	8	07974	REWIND SCURCE TAPE	=	RAD	CREWND .		ALE4	•
	00755		91914			CCORG	PREWNO		AL63	
				END DUPLICATION PASS. NOPO OTHER PASSES.		SOURCE TAPE TO	*REWIND S		AL62	
				******************		**********			ALGI	
300595	00748	. ~	DRIVE07967	GO WRITE TAPE MARKS OUTPUT DR	CSCUMP	œ			AL60	
000722009373	00736	12	07955	CSCCONELL, CCMTMX-1 SET TO MAKE RWU NEXT TIME	CSCCONE	MLCS			A159	
•	00735	-	95610			MLCWA			AL58	•
D0093800663X	00723	12	07942	CCHTMX.CSDWRIES CHANGE WIBEW TO WIM TO RWU		MLCWA	CCHWIM		ALST	
	ADDRS	5			OPERAND	OPCOD	LABEL	***	PGL IN	
PAGE 79				UPDATE SECTION PHASE TWO					1050	
			<u></u>			<u> </u>		$\overline{}$	<u> </u>	· ~
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	1050			UPDATE SE	SECTION PHASE TWO				PAGE 80
	PGL IN	LABEL	OPCOD	OPERAND			13	ADDRS	INSTRUCTION
C	A193		DCW	ଓ ୍ର			08012 1	00793	
	A194		MOD	(d			08013 1	96100	
	A195		M D C M	(d)			08014 1	00795	
	967V		MOD	(8)			08015 1	96100	
	AL97		DCW	(6			1 91080	16100	
	AL98		DCW	(d			08017 1	00798	
	A199		MOD.	(d (a		:.	08018 1	66100	
	Ą		MO0	(4)			08019	00800	
	AP 1		MOG	(a)			08050	10800	
	AP 2		MOO	(d 2 <u>%</u> (e)			08021 1	00805	
	AP 3		ORG	CPFASEE369	ENSURE WM IN 00998	8		00845	
	AK 4		CCORG	PPFASEE369		·	08064	00845	•
	AK 5	****	****	*************					
	9 A V	*MOVE APP	APPLICABLE	CONTROL CARCS FROM	LOWER MEMORY TO CLAGNOSTIC.	AGNOSTIC.			v
	A 4 4	CMVACC	8 B E	CMFIVE, TOP THO-1,8	GD MOVE SYSI,CHNI	SYS1, CHN1, CHN2, CHN3, CHN408064	408064 12	00845	W00888012488
	A 8		88E	CMTHRE, TOP THO-1	GO MOVE SYSI,CHNI	SYS1, CHN1, CHN2 CNLY	08076 12	2 00857	W0090101248-
	9 A 4		BBE	CMCNNE, TOP THO, 8	GO MOVE SYST ONLY		08088 12	69800 3	W0091401249B
	AP10		60	CRELPR	DONT MOVE ANY CARDS	SOS	08100	1 00881	100508
	AFIL	CMFIVE	MRCR	LOCHN3, CHN3	MOVE CHN3 CARD		08107 12	88800 3	D0019201403.
	AP12		MRCR		MCVE CHN4 CARD		08119	00600 1	۵
	AP13	CMTHRE	MRCR	LOCHNI, CHNI	MOVE CHNI CARD		08120 12	10600 2	D0007801289.
	AF 14		MRCR		MOVE CHNZ CARD		08132 1	1 00013	۵
	AF15	CMONNE	MRCR	LOSYS1, SYS1	MOVE SYSI CARD		08133 12	71600 2	D0004501256.
	A P 16		&	CRELPR	GO CONTINUE PHASE	2	08145	00926	100508
	AP17	****	******		*************	**********			
	AP 18	*PHASE 2		CONSTANTS AND STORAGE.					
	AF19		MOO	おしおし1番の			08156	2 00037	
e e	AMZO	CCHIFX	MOO	(8 Z (8			08157	86600 1	
	AHZI	CZFLCL	NC M	FIELDS			•	5 00943	16600
	A # 22	PCREL	CCORG	•			08163	44600	
	A#23	•	MOO	800999	TOP THOUSANDS ADDR	<u>.</u>	08167	2 00948	
	A # 24	CRELPC	N C C	8666308	TOP THOUSANDS ADDR	OR OF PROG			
	AP25	CXBLNK	DCM				08174	2 00955	

250			UPDATE SEC	SECTION PHASE TWO			PAGE 81
PGLIN	LABEL	00040	OPERAND		C 1	ADDRS	INSTRUCTION
f		1	_				
A # 2 8	*TYPE THIS			ER AND IDENTITY.			
A#29	CIYPEO		JNI 3166-DH	CLEAR SEQUENCE ZONES	08175 6	95600	£002N2
A P 30		MLCA	CXBLNK, TOPIHO-9976 INDEXX	INDEXX CLEAR TOPTHO IN PROGRAM	08181 12	00962	D00955002NZT
AP31	CTYPEW	MCP	PRCGSQ-9996INDEXX	TYPE IT	08193 10	71600	M\$10002M8W
AF32		BAI	CTYPEW		08203 7	00984	R00974M
AP33	CIYPPD	60	CPHASE	GO DUMP NEXT PROGRAM	08210 7	16600	300476
AF34	CPHEND	CCORG	•	LAST ENTRY IN PHASE 2	08217	86600	
AF3S		M OCM	aMa STOP OVERLAY-THIS	AY-THIS GM/WM MUST BE IN 00998	08217 1	86600	
A#36	*****	*********		· · · · · · · · · · · · · · · · · · ·			
LEAV	*REAC PH	*REAC PHASES 2 &	3 BACK INTO UPPER CORE.	JRE.			
A#38	*REWIND	E UNLOAD	CARE IMAGE TAPE IF	MODIFYING FROM TAPE.			
AP39	CPHCCO	CCORG			08218	66600	
9740	CPHTPI	* 8SP		BACKSPACE BUFFER	08218 5	66600	UZUIB
AP41		8 A 1	11		08223 7	01004	R00999M
AP42		* RTBGW	11, PPHASE	REREAD PHASES 263 INTO	08230 10	01011	L#8107695\$
AP43		• 8A1	BERROR	UPPER MEMORY	08240 7	01021	R00306M
444		NOP			08247 1	01028	2
AP45	ERWAND	CCORG	•		08248	01029	
AP46		6	£13•	GO IF NO SOURCE TAPE	08248 7	01029	101048
AP47	ERMDSO	CCORG			08255	01036	
AF48		* RWU		REWIND/UNLOAD SOURCE TAPE	08255 5	01036	UTOIN
6548		* BA1	11		08260 7	01041	R01036M
APSO	CMASTM	CCORG			08267	01048	
APSI	•	NOP			08267 1	01048	Z
AP52	CHSTRS	6 0	813•		08268 7	01049	101073
AP53		MCP	PME SMZ	TYPE MASTER TAPE MESSAGE	08275 10	95010	M\$1008342W
AFS4		841	-16		08285 7	01066	R01056M
AMSS		BCE	CWTLAD, CPHTPA62, 1	GO IF MODIFYING FROM CARDS	08292 12	01073	801109010991
A756		BCE	CWILAD, CPHTPA62, Z		08304 12	01085	80110901108
APS7	CPHOCO	CCORG			91680	01097	
APSB	CPHTPA	. REC			6 91680	26010	กเกรก
AH59		• 8A1	11		08321 7	01105	R01097H
A#60	CHILAD	6	PWTLOD	GO RWD-WT LOAD PROG ALL DUTPUTS	08328 7	0110	108361

1050				UPDATE SECTION	CTION PHASE TWO				PAGE 82
PGL IN	Z	LABEL	OPCOD	OPERAND			CTA	ADDRS	INSTRUCTION
AV62	2		60	CPFASE		08335	۰ 0	91110	300476
AP		PYESMZ	CCORG			08342	0	01123	
A W 64	4:		300	SXX-NEW MASTER TAPE & G	E 2 • G	08359 1	0 81	01140	
AFES	ř.	CPHTPB	CCORG			08361	J	01142	
AMES	9		ORG	CP+TP8			3	08361	
AVEZ	23	****	******		NO 中国 电电子 医电子 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基				
AVEB	60	*REWIND A	*REWIND AND WRITE	LOAD PROGRAM ON OUTPLY DRIVES	ITPLT DRIVES.				
A # 6 9	6.	PWTLCO	SBR	POCNE5	SET EXIT		2	08361	6085428
AP70	0		చ్	PREND&1	FIND ADDRESS		9	08368	n08402
AP7	-		Ser	PWBARES	STORE IT		7 .	08374	6085118
AV72	12		MLCWA	PRNDES, PWT65	MOVE REWIND INSTRUCTION		12. 0	18680	D0854908494X
AP 73	73		MLCWA				_	08393	0
AP74	*		6 0	PFIN	GO TO REWIND ALL OUTPUTS	•) 2	08394	108426
A	2	PRENC	3	PDCNE1	FIND ADDRESS		9	10480	n08538
AP76	92		SBR	PWBARES	RESTORE 11) ~	08407	6085118
¥	11		MLCWA	PWTSAE9,PWTE9	RESTORE WRITE INSTRUCTION		1.2 (91480	D0855908498X
AP78	80	PEN	3S	PRCTABEL	FIND ADDRESS OF TABLE		9	08426	,07993
P A A	61		SAR	INCEXA	STORE 11		/	08432	G00039A
A #80	0	PMRC	MRC	OEINDEXA . PhIEL	MCVE CHNL INDICATOR		12 (08439	#0678003000G
AVEL	 EU		MRC	1 EINDEXA, PWBA	MOVE STATUS INDICATOR		12 (08451	#6658013000Q
A P 8 2	82		SAR	INCEXA	SAVE ADDRESS		7	08463	G00039A
A 883	63	PWMG	MRC	OEINDEXA, PhT63	MOVE DRIVE NUMBER		12 (08410	#2648003000G
4878	*		SAR	INCEXA	SAVE ADDRESS			08482	G00039A
A F 8 5	6	Z.	M10M	11,LPR	WRITE TAPE	•	10	08489	M265801827
A 866	98	PEGA	8 A 1	BERROR	BRANCH ANY ERROR		, ,	08499	R00306M
A 28.7	28	PWBAR	BCE	PDCN, OEINDEXA,	GC IF ALL DRIVES WRITTEN		12	90580	80853700060
- A	· · ·		88	PMRC, OEINDEXA, 6	IF ZONE BITS-GO CHANGE CHNL		12	08518	M08439000E0E
i	,						,	00000	0000

08518 08530 08537

BRANCH TO NEW DRIVE

REWIND INSTRUCTION

SUSUIR 00000

30

PRWC PDCN

(e

PAMP

A # 89

064V AP91 A # 9 2 11, LPR

MIBM DCM

A COM

ORG

ENDCXH PWTSA

EXIT

WRITE INSTRUCTION

000000 108470

08550 LTB108597W

01

08260

08549

1050						UPDATE SECTION PHASE TWO	ECT ION	PHASE	1 WO								83
NI 19d	z	LABEL		00040	OPERAND									7	CT ADDRS	INSTRUCTION	CTION
AM96		****		************		*************	*****	* * * * * * *		* * * *	* * * *	* * * *					
AMST	÷ .	*ENO OF	ā	*END OF PHASE 2 IF		PHASE 3 IS TO BE RUN.	RUN.								٠.		
A M98				ORG	CTEDUX										77700		
A M 9 9	· · ·	ENDCPH		CCORG	ENDCXH								08280		777700		٠.
Z		ENCPHA	. •	RWD	11		REWIN	REWIND TAPE WITH 263 ON	HITH	263	11 NO		08280	S	777700		ų
AN			•	841	ENCPHA		· · · · · · · · · · · · · · · · · · ·						08565	_	00782	R00777M	OΣ
AN 2		ENDCP 1		CCORG									08572		00789		
PN 3		ENCPHB		RIBGW	11.PPHASE	111	READ F	READ PHASES 263 INTO UPPER CORE 08572 10	263	INTO	UPPER	CORE	08572	10	00789	L\$8107695\$	\$569
A NA				BA1	BERROR				•				08582	7	66100	08582 7 00799 R00306M	ĐΣ
AN S				&	EPHASE		60 10	GO TO PHASE	~				08589	7	90800	308834	
AN		ENCPND		CCORG	•								96580		00813		
AN 7		ENCSTP		DCM	e) EC		STOP (STOP OVERLAY					96580	·	00813		

PGL IN	LABEL						
		000	OPERAND		5	ADDRS	INSTRUCTION
0 N	**************************************	****					
AN 10	. LOAD PR	PROGRAM TO	BE PUT ON THE	OUTPUT TAPES AS THE FIRST RECORD			
ANII		ORG	00011			11000	
AN12	LPR	CCORG	•		08597	11000	
AN13		BBE	LBUT-10,00001,B	GO IF LCAD BUTTCN WAS USED	08597 12	00011	W0012300001B
4 N N A		MRCW	0.184	INITIALIZE READ TAPE	08609 12	00023	000000000
AN 15		E NCE	0,188	AND STATUS	08621 12	00035	D0000000088M
AN16		MRCM	0,180	INDICATORS	08633 12	000047	0000000000
ANIT		MLCS	2, LRT61		08645 12	000059	000002000193
AN 18	LBA	BA1	LRT	TURN OFF 1/0 INTERLOCK	08657 7	12000	R00078M
8N19	LRT	RTBGW	10,FIELD	READ FIRST PROGRAM	08664 10	82000	L%8001000\$
AN20	188	BEX1	LRI,3	BRANCH IF NOT REACY OR BUSY	7 47980	00088	R000783
AN21	180	8 A 1	13*	TURN OFF INTERLOCK	18980	26000	R00102M
AN22		MLCWA	LRT610,332	SAVE STATUS INDICATOR	08588 12	00105	D0008800332X
AN23		MLCMA	LR169,331	SAVE READ INSTRUCTION	08700 12	00114	D0008700331X
AN24		&	РСРИ	60 10 0001	08712 7	00126	302000
AN25	LBUT	8 A 1	5	TURN OFF INTERLOCK	08719 7	00133	R00130M
AN26	LRTB	RIBGW	10,FIELD	READ FIRST PROGRAM	08726 10	00140	L%B001000\$
AN27		8EX1	*-26,3	BRANCH IF NOT READY OR BUSY	08736 7	00120	R001303
AN28		BAI	6-*	TURN OFF I/O INTERLECK	08743 7	00157	R00154M
AN29		MLCWA	LR18,332	SAVE STATUS INDICATOR	08750 12	00164	D0014000332X
AN30		MICHA	LR18-1,331	SAVE READ INSTRUCTION	08762 12	92100	X16600981000
AN31		60	PCPU	00 10 0001	7 71180	00188	102000
AN32		I		TERMINATE BRANCH OP	08781 1	00195	•
AN33		20	1242484	- 1 a FLOATING BIT	08802 21	00216	
ANA	• 4.	20	STSECFSTTSFGSSTTSECFS	TSECF FLOATING NOT BITS	08823 21	00237	•
AN35	•	DCW	919	WORD MARKED BITS	08824 1	00238	
AN36		DCW	22 6		08825 1	00239	
AN37		M D C	9.40		08826 1	00240	
A N 3 8		MOO .	: @ (8		08827 1	00241	
AN39		MOO	(e) (a)		08828 1	00242	•
AN40		MOD	(0)		08829 1	00243	
ANAL		MOG	(8)		08830	00244	
AN42		DC	8 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WORD SEPERATORS	08832 2	00246	
			•				

207					,		10. 10.00
		00040	UPERAND		5	ADDRS	INSTRUCTION
AN45	******	******		*********************			
AN46	*PHASE 3	STARTS HERE.	PHASE	3 IS THE PROGRAM EDIT PHASE. PHASE	•		
PN47	#3 CUPLIC	ATES SHO	*3 DUPLICATES SHORT MEMORY DLMP PROGRAMS FROM	AMS FROM THE NEW MASTER TAPE			
ANA	*CREATED	BY PHASE 2	CNTO THE	NEW CUTPUT TAPE. THIS NEW CUTPUT			
AN49	*TAPE CON	TAINS ON	*TAPE CONTAINS ONLY THOSE PROGRAMS APPLICABLE	PLICABLE TO A SPECIFIC			
ANSO	*SYSTEM AS DETERMINED	S DETERM	BY PHASE 3	FROM THE MACHINE CONFIGURATION			
ANSI	*CCNTROL	CARDS ON	THE NEW MASTER TAPE.				
AN52	EACEPT	ECU	ERELPR	ACCEPT ADDR TO PROG RELOCATE			
ANS3	ERJECT	ECU	CPFASD	REJECT ADDR TO READ BUFFER			
ANS4	ERESLT	EGU	CASTER	EDIT RESULT CHARACTER			
ANSS	EINCCO	EGU	EINPUT				
ANS6	EPHTRX	CCORG			08834	00248	•
ANST		0 k G	EPFTRX			08834	
ANSB	******		* * * * * * *				
AN59	*OVERLAY	PHASE 2	WITH PHASE 3 SECTIONS.				
ANGO	EPHASE	MLCA	ECUIPI, PROIAB62	SET UP PHASE 3 CUTPUT TABLE	12	08834	D0902907994T
ANGI		60	PWTLOD	GC RWD/WRT LOAD ON GUT 1	7	08846	108361
AN62	ESPASO .	DCW.	GUZUIAG	SPACE OVER LOAD PROGRAM		08853	
AN63		M DC	(e)	ON OUTPUT 2 IF MULTI PHASE	'n	08862	
AN64		BA1	BERROR	NO SPACE IF SINGEL PHASE EDIT	1	08863	R00306M
ANES		MRCWG	EINDEX, EREL IN	OCCUPY 00025-00305	12	08870	0000250600
ANGE		MRCWG	EDMP, ENEMDP	OCCUPY 00508 UP	12	08882	00934700508
AN67		MLCS	EINPUT, CPHASCE1	READ INPUT	12	08894	009049004113
AN68		MLCS	EINPUT, EINRWUEI	REWIND INPUT	12	90680	D09049006463
AN69		MLCS	EINPUTE1, CPHASDE10	READ INPUT	12	08918	D09050004863
AN70		MLCS	EINPUTEL, CPHASDEL7	READ INPUT	12	08930	009050004933
1 LNA		MLCS	EINPUT61, EINRWUES	REHIND INPUT	12	08942	009050006503
AN72		MLCS	EINPUTE2, CPHASDE3	READ INPUT	12	08954	009051004793
ANTS		MLCS	EINPUTE2, EINRHUE3	REWIND INPUT	12	99680	D09051006483
ALZA		3	EDITE1, ECHETHE1		1	82680	по005600629
AN75		SAR	CPFASD629		_	08989	G00505A
AN76		SBR	CPFASD622		~	96680	6004988
AN77		MC P	PMESMX		01	0060	M%T009030W
8LN4		8 ¥ 1	91			09013	R09003M
4							

Š			UPDATE SECTION	CTION PHASE THREE			PAGE	E 86
PGL IN	LABEL	OPCOD	OPERAND		့ပ	CT ADDRS		INSTRUCTION
ANEL	EGUTPT	DC¥.	B # 7 1 2	PH 3 OUTPUT-OUT 1		3 09029	53	•. •
AN82	PESEX	M C M	AXX-NEW EDITED TAPEA,G	9.66		18 09030	30	
AN 83	EINPUT .	NOC.	9%R 19	TAPE DRIVE FOR PHASE 3 INPUT		3 09049	641	
30 N	***	*****					•	
AN BY	*PHASE 3	SECTIONS	TO OVERLAY PLASE 2	FOR PHASE 3 OPERATION.				
A N86		ORG	80000			80000	80	
AN87	EINDEX	CCORG			09052	0000	801	
A 28 8	ECNSTT	M OO	S @BJ242@	01242 & IX REG 6 ZONES	95060	5 00012	112	F.
AN.89	ERSTRT	CCORG			09057	00013	113	
06V V	ERSTRA	CCW	(đ	BA OP CODE	15060	1 00013	113	
ANSI	i !	RTBGW	10,00011	RESET & START OP	09058 1	10 00014		LZB0000115
AN92	•	NO C	(a)	TERMINATE & STOP MOVE	89060	1 00024	754	
BN93		NO C	a01403a	IX 1 FOR CHN3	09073	5 00029	129	
46V4		MOO	a01346a	IX 2 FOR CHN2	82060	5 00034	34	
A N 9 5		MOD C	a01460â	IX 3 FOR CHN4	09083	5 00039	39	
98NA		MOO	8000008	IX 4 FOR IO ERR & OTHER	88060	5 00044	746	
AN97		MOO	800000e	IX REG 5 FOR GENERAL USE	08083	2 000	67000	
85.V		MOD	a01256a	IX 6 FOR SYSI & CHNI	86060	5 00054	154	
AN99	*****	******	- 李中华市市市市市市市市市市市市市市市市市	中华 医电子 电电子 医电子 医电子 医电子 医电子 医电子 医电子 医电子 医电子				
A C	•FINC 6 S	STORE IN X1 T	X1 THE LEFT ACDRESS	OF THE LEFT BLOCK.				
AC 1		¥7	ECNSTT, X4	SET BLOCK ADDRESS COUNT 01242	09099	11 000	00055 60(£0001200044
A [] 2	EDITA	⋖	ESCHRT, X4	SUBTRACT 3 FROM X4	09110	11 000	00066 AQ	A0060400044
₽ 0 3	! !	80	EBLANK, 36X4	GO WHEN FOUND	09121	12 000	000 11 000	V00096004031
AC 4		60	EDITA		09133	7 000	00 68000	300006
A 0 5		*****		· · · · · · · · · · · · · · · · · · ·				
9 O V	•EX11 1F	EXIT IF NO CONDITIONS.	TIONS.					
A0 7	EBLANK	886	EACEPT, TOPTHO	IT IN 01249-ACCEPT UN				W0050801249-
AQ. 8		42	10, ERESLT	RESULT				60010800507
9 O V		V 2	#-10, ERSUL 1	SET RESULT STORAGE TO EO	09163	11	61100	86600611003

	1 400.	2			נ	ADDRS	INSTRUCTION
NT 104	LAGEL		Drikand		5)
AC11	* * * * * * * * * * * * * * * * * * *	**************************************		化化学 医电子性 医电子性 医生物性 医乳球性 医乳球性 医乳球性 医乳球性 医乳球性 医乳球性 医乳球性 医乳球			
7 T					11 77 100		000000000000000000000000000000000000000
AC13	ESCICA	5 5	EBLUCAS INCH	Assert on Condition		14100	G002300
AC 14		X 0 0	ESIGNEGS				2000
AC15		98E	*£20,4£X4,-	GO IF OR SECTION	09192 12	00148	M0017900#04-
AC16		3	ENCBRX61	SET UP FOR . CONDITION	09204 6	09100	n00236
AC17		SAR	ESIGNE65		09210 7	99100	G00220A
AC 18		X S	ESINSW		9 11260	00173	,00228
A019	****	******	- 李安宗帝宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗宗	· · · · · · · · · · · · · · · · · · ·			
AC20	*DETERMINE	NE & SET	UP FOR SIGN OF THIS	S BLOCK.			
AC21		3	ESWCHX	CLEAR SHITCH X	09223 6	62100	e9100n
AC22	EBLOCK	S	ESCWRT, X4	ADD 3 TO BLOCK ADDRESS	09229 11	00185	20060400044
AC23		3	ETRYGNE1	INITIALIZE ADDRESS	09240 6	96100	E00777
AC24		SBR	EBCEES	SET BCE A ADDRESS TO TRY AGAIN	09246 7	00202	6007618
AC25		NS	EBCESW	SET TO END IF BCE NO BRANCH	09253 6	00200	69200
A026	ES I GNE	886	00000 1EX4 B	GO IF NCT CHAR-A BIT IN ZONE	09259 12	00215	W00000000+018
AC27		NCP			1 1260	00227	z
AC28	ESINSM	60	E810C2		09272 7	00228	J00253
A029	ENCBRX	ప	EBCESW, EQUICKEL	SET BCE SWITCH TO DROP THRU	09279 11	00235	п0076900911
AC30		SBR	EBCEES	SET BCE TO END IF BRANCH	06260	00246	6007618
AC31	*****	****	· · · · · · · · · · · · · · · · · · ·				
A032	*SET UP	FOR THIS	BLOCK.				
AC33	EBLOCZ	MLCS	EBLANK, EBCE	SET FOR BBE OP CODE	09297 12	00253	000096001563
AC34		3	*£12,26X4	GO IF BBE WANTED	09309 12	00265	V0028800#021
AC35		42	EALLON, EBCE	SET FOR BCE OP CODE	09321 11	00277	20082400756
AC36		/ @ .	ESTOMD	GO TO NEXT SECTION	09332 7	00288	100687
A037	EZFLCL	M C M	CF JELDS		09343 5	00299	16600
AC38	EXBLNK	MOD	(F)		09345 2	10600	
A039		3	n Ec	STOP PHASE 3 OVERLAY	1 79560	00302	

- C	Ş		 	HEDATE SECTION	FCTION PHASE THREE		•	PAGE 88	•
3	PGL IN	LABEL	OPCOD	OPERAND		7.0	ADDRS	INSTRUCTION	
		•							
	AC41		*************	****************	*******				
	AC42	*RELCCATE		DIAGNOSTIC TO UPPER MEMORY	MEMORY TO MAKE A SHORT DUMP.				
	AC43	ENEMEP	ORG	BSETUP			00508		
	P044	EDMP	CCORG	*		09347	00508		
	AC45	ERELPR	MLNB	TOPTHO, ERELPC-3	SET TOP 1000S ADDR CF PROG	09347 12	00208	001249009941	
٠.	AC46		42	ERELPC, X4	X4 TO TOP 1000S OF PROGRAM	09359 11	002500	75000166003	
	AC47		42	ERELPC-5,X5	X5 TO TOP THOUSANDS OF MEMORY	09370 11	1 00231	6000266003	
	AC48	-	ن ب	X4*X5	IS PROGRAM LARGER THAN CORE	09381 11	7 00 2 4 5	C000440007	
	AC49		Ę	CPFASE	GO SKIP THIS ONE IF YES	09392 7	00553	1004761	
	AC50	ERELPA	MLCWA	A CEX4,0EX5	MCVE PART OF PROGRAM UP	09399 12	00200 3	X0##0000#000	•
	AC51		SAR	*	SET FOR NEXT MOVE	09411 7	00572	G00044A	
	A052		SBR	X 5		09418 7	1 00579	G00049B	
	A053		U	X4,E2FLDL	IS ENTIRE PROGRAM MCVED	09425 11	98500 1	C0004400599	
	AC54		9 6	ERELPA	60 1F NOT	09436 7	7 00597	7095000	
	AC55	****	*******	*************					
	A056	*WRITE	THIS CIAGNOSTIC	GNOSTIC ON AN OUTPUT	TAPE.				
	ACS 7	EDUMP				09443	0000		
	AC58	ESCHRI	* WIBEN	2X3E411 H	DUMP FROM START OF PROGRAM	09443 10	00000	L 28100 + + 3X	
	AC59		* 8A1	BERROR		03453 7	1 00614	R00306M	
	A060		50	ETYPEO	GO TYPE TITLE	09460	7 00621	100946	
	AC61		***************	************	******************				
	A062	+WRITE	TAPE MARK	AND REWIND/LNLOAD	ROUTINES.				
	AC63	PECYEL	CCORG	•		19460	00628	•	
	4064	ECHNIM	I I	11	WIM ON NEW LORK TAPE	19560	5 00628	חאתוא	
	AC65		MOD	(e		09476	5 00637	ن	*
	A066	. ,	BA1	BERROR		09477	86900 2	R00306M	
	AC67	EINREC	- A	11	REWIND NEW MASTER	09484	5 00645	uzulu	
	AC68		* 8A1	11		09489	7 00650	R00645M	
	AC69	PECYEM	CCORG	* 9		96760	00657		
	AC 70		* RWU	11	REWIND NEW EDITED TAPE	96760	5 00657	กรถาก	
	AC7.1		. BA1	*-11		10560	7 00662	R00657M S	
	AC12		MRCWR	R ERSTBA,000CO	SET RESET & START OP CODES	09508 12	2 00669	D0001300000M	
	A073		I	5	END OF PHASE 3	09520	6 00681	.00681	

CT ADDRS INSTRUCE ***********************************									
ACES ACCES	1	1050						7 AGE 89	
ACED SETUPE THIS BLOCK. ACED ACED ACED ACED SETUP. ACED ACED ACED ACED ACED ACED ACED ACED		PGL IN				5	ADDRS	INSTRUCTION	
ACCORDANCE STORM NOT THE SECTION NOT CHAR. CONSTRUCT NOT CHAR. CONSTRUCT NOT CONSTRUCT	•								
ACCOMBANCE STORY CHAIN SHOCK. ACCOMBANCE STORY CHAIN SHOCK. ACCOMBANCE STORY CHAIN SHOCK. ACCOMBANCE STORY CHAIN SHOCK. ACCOMBANCE STORY CHAIN SHOCK STORY SHOWER STORY SHOWERS SHOWERS STORY SHOWERS STORY SHOWERS		AC86	· 多种环境和特殊的种类的中心。		电影电影电影电影电影电影				
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